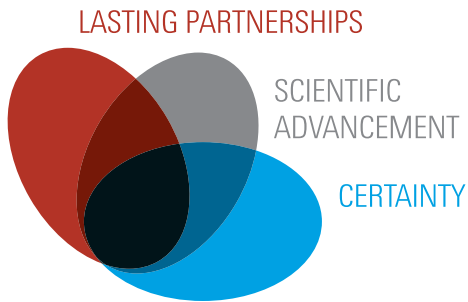


2017 - 2018





Dear Valued Customer,

Since 1966, when Danish doctor Niels Harboe founded Dako and began manufacturing antibodies, Dako developed into a global leader in reagent manufacturing and providing diagnostic solutions. We are driven by our role in the fight against cancer and passionate about creating new solutions, delivering the highest quality, and providing the best possible service to our customers and partners.

Dako was acquired by Agilent in 2012, and is now a cornerstone of the new Diagnostics & Genomics Group (DGG). As a leader in life sciences, diagnostics and applied chemical markets, Agilent provides powerful support to what we do, including additional R&D resources, investments, and synergies with other Agilent divisions.

With this pivotal view of our rich history and promising future, you can be assured that our commitment to our core values of scientific advancement, certainty and building lasting partnerships with our customers will stay the same. We will continue to drive scientific advancement in developing and improving products. We will provide certainty in the diagnostic results from our solutions, by dedicating ourselves to constantly providing quality products. Finally, we will continue to develop and honor our partnership with you.

This catalog presents the Dako-branded portfolio of flow cytometry products including antibodies against many different biomarkers in a variety of conjugates. Also included are our widely recognized polyclonal kappa and lambda light chain products.

We look forward to establishing new cooperation and thank our present customers for their continued partnership.

Sincerely,



Tom Just
General Manager
Head of Reagent Partnership Division
Diagnostics and Genomics Group

Agilent Technologies

TABLE OF CONTENTS

Alphabetical Index	4
Introduction	12
Overview Tables	13
Products	18
Single-Color Reagents	18
Dual-Color Reagents	26
Triple-Color Reagents	27
FITC/RPE/APC Reagent Line	27
FITC/RPE/RPE-Cy5 Reagent Line	31
Isotype and Control Reagents	32
Single-Color Mouse Isotype Reagents	32
Single-Color Rabbit Ig Reagents	32
Dual-Color Mouse Isotype/Rabbit Ig Reagents	32
Triple-Color Mouse Isotype/Rabbit Ig Reagents	33
Unconjugated Control Reagents	33
Secondary Antibody Conjugates	34
Ancillary for Flow Cytometry	34
Kits and Accessories	35
Calibration Beads	35
Enumeration of Stem Cells	35
Lysing, Fixation and Permeabilization Reagents	36
Quantitative Analysis	36
Telomere PNA Kit	37
General Product Information	38
Product Code Index	40

Alphabetical Index

Abbreviations:

a	Anti-
Gt	Goat
Hu	Human
Mo	Mouse
Rb	Rabbit
Sw	Swine

Labels:

APC	Allophycocyanin
FITC	Fluorescein isothiocyanate
PB	Pacific Blue
PerCP	Peridinin chlorophyll protein complex
PerCP-Cy5.5	Peridinin chlorophyll protein complex-Cy5.5
RPE	R-phycoerythrin
RPE-Cy5	R-phycoerythrin-Cy5

Code	Source	Product	See Page
A			
		Aminopeptidase N , see: CD13	
B			
F7110	Mo a Hu	B Cell/FITC , Clone FMC7	18
TC683	Mo a Hu	B Cell/FITC , Clone FMC7 + CD19/APC , Clone HD37 + CD23/RPE , Clone MHM6, MultiMix™ Triple-Color Reagent	27
F7053	Mo a Hu	BCL2 Oncoprotein/FITC , Clone 124	18
S2366		Beads, CytoCount™ for Count Control in Flow Cytometry (150 Tests)	35
C			
R0841	Mo a Hu	C3bi Receptor, CD11b/RPE , Clone 2LPM19c	19
K0110		Calibration Beads, FluoroSpheres , for Daily Monitoring of the Flow Cytometer (40 Tests)	35
F7141	Mo a Hu	CD1a/FITC , Clone NA1/34	18
R7189	Mo a Hu	CD1a/RPE , Clone NA1/34	18
F0767	Mo a Hu	CD2/FITC , Clone MT910	18
R0807	Mo a Hu	CD2/RPE , Clone MT910	18
FR894	Mo a Hu	CD2/FITC , Clone MT910 + CD19/RPE , Clone HD37, MultiMix™ Dual-Color	26
TC666	Mo a Hu	CD2/FITC , Clone MT910 + CD5/APC , Clone DK23 + CD34 Class III/RPE , Clone BIRMA-K3, MultiMix™ Triple-Color	27
TC677	Mo a Hu	CD2/FITC , Clone MT910 + CD3/APC , Clone UCHT1 + CD7/RPE , Clone CBC.37, MultiMix™ Triple-Color Reagent	27
C7225	Mo a Hu	CD3/APC , Clone UCHT1	18
F0818	Mo a Hu	CD3/FITC , Clone UCHT1	18
PB982	Mo a Hu	CD3/PB , Clone UCHT1	18
PR702	Mo a Hu	CD3/PerCP , Clone UCHT1	18
R0810	Mo a Hu	CD3/RPE , Clone UCHT1	18
C7067	Mo a Hu	CD3/RPE-Cy5 , Clone UCHT1	18
FR875	Mo a Hu	CD3/FITC , Clone UCHT1 + CD4/RPE , Clone MT310, MultiMix™ Dual-Color	26
FR881	Mo a Hu	CD3/FITC , Clone UCHT1 + CD8/RPE , Clone DK25, MultiMix™ Dual-Color	26
FR866	Mo a Hu	CD3/FITC , Clone UCHT1 + CD19/RPE , Clone HD37, MultiMix™ Dual-Color	26
FR867	Mo a Hu	CD3/RPE , Clone UCHT1 + HLA-DP, DQ, DR Antigen/FITC , Clone CR3/43, MultiMix™ Dual-Color	26
TC677	Mo a Hu	CD3/APC , Clone UCHT1 + CD2/FITC , Clone MT910 + CD7/RPE , Clone CBC.37, MultiMix™ Triple-Color Reagent	27
TC660	Mo a Hu	CD3/APC , Clone UCHT1 + CD4/RPE , Clone MT310 + CD8/FITC , Clone DK25, MultiMix™ Triple-Color	28
TC641	Mo a Hu	CD3/RPE-Cy5 , Clone UCHT1 + CD4/RPE , Clone MT310 + CD8/FITC , Clone DK25, MultiMix™ Triple-Color	31
TC661	Mo a Hu	CD3/APC , Clone UCHT1 + CD16/FITC , Clone DJ130c + CD56/RPE , Clone C5.9, MultiMix™ Triple-Color	28
TC690	Mo a Hu	CD3/FITC , Clone UCHT1 + CD19/RPE , Clone HD37 + CD45/APC , Clone 2D1, MultiMix™ Triple-Color Reagent	28
TC668	Mo a Hu	CD3/APC , Clone UCHT1 + CD22/RPE , Clone 4KB128 + TdT/FITC , Clone HT-6, MultiMix™ Triple-Color	31
TC667	Mo a Hu	CD3/APC , Clone UCHT1 + CD79αcy/RPE , Clone HM57 + MPO/FITC , Clone MPO-7, MultiMix™ Triple-Color	30
C7226	Mo a Hu	CD4/APC , Clone MT310	18
F0766	Mo a Hu	CD4/FITC , Clone MT310	18
R0805	Mo a Hu	CD4/RPE , Clone MT310	18
FR875	Mo a Hu	CD4/RPE , Clone MT310 + CD3/FITC , Clone UCHT1, MultiMix™ Dual-Color	26
FR868	Mo a Hu	CD4/FITC , Clone MT310 + CD8/RPE , Clone DK25, MultiMix™ Dual-Color	26
TC660	Mo a Hu	CD4/RPE , Clone MT310 + CD3/APC , Clone UCHT1 + CD8/FITC , Clone DK25, MultiMix™ Triple-Color	28
TC641	Mo a Hu	CD4/RPE , Clone MT310 + CD3/RPE-Cy5 , Clone UCHT1 + CD8/FITC , Clone DK25, MultiMix™ Triple-Color	31
C7242	Mo a Hu	CD5/APC , Clone DK23	18
F0795	Mo a Hu	CD5/FITC , Clone DK23	18

Alphabetical Index (continued)

Code	Source	Product	See Page
R0842	Mo a Hu	CD5/RPE , Clone DK23	18
FR882	Mo a Hu	CD5/FITC , Clone DK23 + CD19/RPE , Clone HD37, MultiMix™ Dual-Color	26
FR729	Mo a Hu	CD5/FITC , Clone DK23 + CD20/RPE , Clone B-Ly1, MultiMix™ Dual-Color	26
TC666	Mo a Hu	CD5/APC , Clone DK23 + CD2/FITC , Clone MT910 + CD34 Class III/RPE , Clone BIRMA-K3, MultiMix™ Triple-Color	27
TC664	Mo a Hu	CD5/FITC , Clone DK23 + CD10/RPE , Clone SS2/36 + CD19/APC , Clone HD37, MultiMix™ Triple-Color	28
TC663	Mo a Hu	CD5/RPE , Clone DK23 + CD19/APC , Clone HD37 + CD20/FITC , Clone B-Ly1, MultiMix™ Triple-Color	28
F7276	Mo a Hu	CD7/FITC , Clone CBC.37	19
R7277	Mo a Hu	CD7/RPE , Clone CBC.37	19
TC677	Mo a Hu	CD7/RPE , Clone CBC.37 + CD2/FITC , Clone MT910 + CD3/APC , Clone UCHT1, MultiMix™ Triple-Color Reagent	27
F0789	Mo a Hu	CD7/FITC , Clone DK24	19
C7227	Mo a Hu	CD8/APC , Clone DK25	19
F0765	Mo a Hu	CD8/FITC , Clone DK25	19
PB984	Mo a Hu	CD8/PB , Clone DK25	19
R0806	Mo a Hu	CD8/RPE , Clone DK25	19
C7079	Mo a Hu	CD8/RPE-Cy5 , Clone DK25	19
FR881	Mo a Hu	CD8/RPE , Clone DK25 + CD3/FITC , Clone UCHT1, MultiMix™ Dual-Color	26
FR868	Mo a Hu	CD8/RPE , Clone DK25 + CD4/FITC , Clone MT310, MultiMix™ Dual-Color	26
TC660	Mo a Hu	CD8/FITC , Clone DK25 + CD3/APC , Clone UCHT1 + CD4/RPE , Clone MT310, MultiMix™ Triple-Color	28
TC641	Mo a Hu	CD8/FITC , Clone DK25 + CD3/RPE-Cy5 , Clone UCHT1 + CD4/RPE , Clone MT310, MultiMix™ Triple-Color	31
F0826	Mo a Hu	CD10/FITC , Clone SS2/36	19
R0848	Mo a Hu	CD10/RPE , Clone SS2/36	19
FR883	Mo a Hu	CD10/FITC , Clone SS2/36 + CD19/RPE , Clone HD37, MultiMix™ Dual-Color	26
TC664	Mo a Hu	CD10/RPE , Clone SS2/36 + CD5/FITC , Clone DK23 + CD19/APC , Clone HD37, MultiMix™ Triple-Color	28
R0841	Mo a Hu	CD11b, C3bi Receptor/RPE , Clone 2LPM19c	19
		CD11b/CD18 , see: CD11b, C3bi Receptor	
F0713	Mo a Hu	CD11c, Protein 150,95/FITC , Clone KB90	19
TC665	Mo a Hu	CD11c/RPE , Clone KB90 + CD19/APC , Clone HD37 + CD103/FITC , Clone Ber-ACT8, MultiMix™ Triple-Color Reagent	30
		CD11c/CD18 , see: CD11c, Protein 150,95	
F0831	Mo a Hu	CD13/FITC , Clone WM-47	19
R0715	Mo a Hu	CD13/RPE , Clone WM-47	19
TC685	Mo a Hu	CD13/FITC , Clone WM-47 + CD117/APC , Clone 104D2 + HLA-DR Antigen/RPE , Clone AB3, MultiMix™ Triple-Color Reagent	28
F0844	Mo a Hu	CD14/FITC , Clone TUK4	19
R0864	Mo a Hu	CD14/RPE , Clone TUK4	19
FR700	Mo a Hu	CD14/RPE , Clone TUK4 + CD45/FITC , Clone T29/33, MultiMix™ Dual-Color	26
F0830	Mo a Hu	CD15/FITC , Clone C3D-1	19
F7011	Mo a Hu	CD16, Fc Gamma Receptor III/FITC , Clone DJ130c	19
R7012	Mo a Hu	CD16, Fc Gamma Receptor III/RPE , Clone DJ130c	19
TC661	Mo a Hu	CD16/FITC , Clone DJ130c + CD3/APC , Clone UCHT1 + CD56/RPE , Clone C5.9, MultiMix™ Triple-Color	28
C7224	Mo a Hu	CD19/APC , Clone HD37	20
F0768	Mo a Hu	CD19/FITC , Clone HD37	20
PB985	Mo a Hu	CD19/PB , Clone HD37	20
PR703	Mo a Hu	CD19/PerCP-Cy5.5 , Clone HD37	20
R0808	Mo a Hu	CD19/RPE , Clone HD37	20
C7066	Mo a Hu	CD19/RPE-Cy5 , Clone HD37	20
FR894	Mo a Hu	CD19/RPE , Clone HD37 + CD2/FITC , Clone MT910, MultiMix™ Dual-Color	26
FR866	Mo a Hu	CD19/RPE , Clone HD37 + CD3/FITC , Clone UCHT1, MultiMix™ Dual-Color	26
FR882	Mo a Hu	CD19/RPE , Clone HD37 + CD5/FITC , Clone DK23, MultiMix™ Dual-Color	26
FR883	Mo a Hu	CD19/RPE , Clone HD37 + CD10/FITC , Clone SS2/36, MultiMix™ Dual-Color	26
FR048	a Hu	CD19/RPE , Clone HD37 + Kappa Light Chains/FITC , Rabbit F(ab') ₂ , MultiMix™ Dual-Color	26
FR044	a Hu	CD19/RPE , Clone HD37 + Lambda Light Chains/FITC , Rabbit F(ab') ₂ , MultiMix™ Dual-Color	26
TC683	Mo a Hu	CD19/APC , Clone HD37 + B Cell (FMC7)/FITC , Clone FMC7 + CD23/RPE , Clone MHM6, MultiMix™ Triple-Color Reagent	27
TC690	Mo a Hu	CD19/RPE , Clone HD37 + CD3/FITC , Clone UCHT1 + CD45/APC , Clone 2D1, MultiMix™ Triple-Color Reagent	28
TC664	Mo a Hu	CD19/APC , Clone HD37 + CD5/FITC , Clone DK23 + CD10/RPE , Clone SS2/36, MultiMix™ Triple-Color	28
TC663	Mo a Hu	CD19/APC , Clone HD37 + CD5/RPE , Clone DK23 + CD20/FITC , Clone B-Ly1, MultiMix™ Triple-Color	28

Alphabetical Index (continued)

Code	Source	Product	See Page
TC665	Mo a Hu	CD19/APC , Clone HD37 + CD11c/RPE , Clone KB90 + CD103/FITC , Clone Ber-ACT8, MultiMix™ Triple-Color Reagent	30
TC689	Mo a Hu	CD19/FITC , Clone HD37 + CD22/APC , Clone 4KB128 + CD34/RPE , Clone BIRMA-K3, MultiMix™ Triple-Color Reagent	28
TC674	Mo a Hu	CD19/APC , Clone HD37 + CD38/FITC , Clone AT13/5 + CD56/RPE , Clone C5.9, MultiMix™ Triple-Color Reagent	29
TC669	a Hu	CD19/FITC , Clone HD37 + Kappa Light Chains/APC , Rabbit F(ab') ₂ + Lambda Light Chains/RPE , Rabbit F(ab') ₂ , MultiMix™ Triple-Color	28
TC051	a Hu	CD19/RPE-Cy5 , Clone HD37 + Kappa Light Chains/FITC , Rabbit F(ab') ₂ + Lambda Light Chains/RPE , Rabbit F(ab') ₂ , MultiMix™ Triple-Color	31
F0799	Mo a Hu	CD20/FITC , Clone B-Ly1	20
R7013	Mo a Hu	CD20/RPE , Clone B-Ly1	20
C7132	Mo a Hu	CD20/RPE-Cy5 , Clone B-Ly1	20
FR729	Mo a Hu	CD20/RPE , Clone B-Ly1 + CD5/FITC , Clone DK23, MultiMix™ Dual-Color	26
TC663	Mo a Hu	CD20/FITC , Clone B-Ly1 + CD5/RPE , Clone DK23 + CD19/APC , Clone HD37, MultiMix™ Triple-Color	28
C7281	Mo a Hu	CD22/APC , Clone 4KB128	20
F7060	Mo a Hu	CD22/FITC , Clone 4KB128	20
R7061	Mo a Hu	CD22/RPE , Clone 4KB128	20
TC668	Mo a Hu	CD22/RPE , Clone 4KB128 + CD3/APC , Clone UCHT1 + TdT/FITC , Clone HT-6, MultiMix™ Triple-Color	31
TC689	Mo a Hu	CD22/APC , Clone 4KB128 + CD19/FITC , Clone HD37 + CD34/RPE , Clone BIRMA-K3, MultiMix™ Triple-Color Reagent	28
F7062	Mo a Hu	CD23/FITC , Clone MHM6	20
R7108	Mo a Hu	CD23/RPE , Clone MHM6	20
TC683	Mo a Hu	CD23/RPE , Clone MHM6 + B Cell (FMC7)/FITC , Clone FMC7 + CD19/APC , Clone HD37, MultiMix™ Triple-Color Reagent	27
F7134	Mo a Hu	CD24/FITC , Clone SN3	20
F0801	Mo a Hu	CD25, Interleukin-2 Receptor/FITC , Clone ACT-1	20
R0811	Mo a Hu	CD25, Interleukin-2 Receptor/RPE , Clone ACT-1	20
F7178	Mo a Hu	CD27/FITC , Clone M-T271	20
R7179	Mo a Hu	CD27/RPE , Clone M-T271	20
R7164	Mo a Hu	CD28/RPE , Clone CD28.1	20
F0849	Mo a Hu	CD30/FITC , Clone Ber-H2	20
F0832	Mo a Hu	CD33/FITC , Clone WM-54	21
R0745	Mo a Hu	CD33/RPE , Clone WM-54	21
TC686	Mo a Hu	CD33/FITC , Clone WM-54 + CD34 Class III/RPE , Clone BIRMA-K3 + CD117/APC , Clone 104D2, MultiMix™ Triple-Color	29
C7238	Mo a Hu	CD34 Class III/APC , Clone BIRMA-K3	21
F7081	Mo a Hu	CD34 Class III/FITC , Clone BIRMA-K3	21
PR706	Mo a Hu	CD34 Class III/PerCP-Cy5.5 , Clone BIRKMA-K3	21
R7125	Mo a Hu	CD34 Class III/RPE , Clone BIRMA-K3	21
TC666	Mo a Hu	CD34 Class III/RPE , Clone BIRMA-K3 + CD2/FITC , Clone MT910 + CD5/APC , Clone DK23, MultiMix™ Triple-Color	27
TC689	Mo a Hu	CD34 Class III/RPE , Clone BIRMA-K3 + CD19/FITC , Clone HD37 + CD22/APC , Clone 4KB128, MultiMix™ Triple-Color Reagent	28
TC686	Mo a Hu	CD34 Class III/RPE , Clone BIRMA-K3 + CD33/FITC , Clone WM-54 + CD117/APC , Clone 104D2, MultiMix™ Triple-Color	29
TC687	Mo a Hu	CD34 Class III/RPE , Clone BIRMA-K3 + CD41/FITC , Clone 5B12 + CD61/APC , Clone Y2/51, MultiMix™ Triple-Color Reagent	29
K2370		CD34Count Kit (50 Duplicate Tests)	35
F7101	Mo a Hu	CD38/FITC , Clone AT13/5	21
R7144	Mo a Hu	CD38/RPE , Clone AT13/5	21
TC674	Mo a Hu	CD38/FITC , Clone AT13/5 + CD19/APC , Clone HD37 + CD56/RPE , Clone C5.9, MultiMix™ Triple-Color Reagent	29
TC671	Mo a Hu	CD38/FITC , Clone AT13/5 + CD45/APC , Clone 2D1 + CD56/RPE , Clone C5.9, MultiMix™ Triple-Color Reagent	29
F7088	Mo a Hu	CD41, Platelet Glycoprotein IIb/FITC , Clone 5B12	21
R7058	Mo a Hu	CD41, Platelet Glycoprotein IIb/RPE , Clone 5B12	21
TC687	Mo a Hu	CD41/FITC , Clone 5B12 + CD34/RPE , Clone BIRMA-K3 + CD61/APC , Clone Y2/51, MultiMix™ Triple-Color Reagent	29
R7014	Mo a Hu	CD42b, Platelet Glycoprotein Ib/RPE , Clone AN51	21
F7102	Mo a Hu	CD43/FITC , Clone DF-T1	21
PR701	Mo a Hu	CD45, Leucocyte Common Antigen/PerCP , Clone 2D1	21
TC690	Mo a Hu	CD45/APC , Clone 2D1 + CD3/FITC , Clone UCHT1 + CD19/RPE , Clone HD37, MultiMix™ Triple-Color Reagent	28
TC671	Mo a Hu	CD45/APC , Clone 2D1 + CD38/FITC , Clone AT13/5 + CD56/RPE , Clone C5.9, MultiMix™ Triple-Color Reagent	29
TC675	Mo a Hu	CD45/APC , Clone 2D1 + CD71/FITC , Clone Ber-T9 + CD235a/RPE , Clone JC159, MultiMix™ Triple-Color Reagent	29
C7230	Mo a Hu	CD45, Leucocyte Common Antigen/APC , Clone T29/33	21
F0861	Mo a Hu	CD45, Leucocyte Common Antigen/FITC , Clone T29/33	21

Alphabetical Index (continued)

Code	Source	Product	See Page
PB986	Mo a Hu	CD45, Leucocyte Common Antigen/PB , Clone T29/33	21
R7087	Mo a Hu	CD45, Leucocyte Common Antigen/RPE , Clone T29/33	21
C7099	Mo a Hu	CD45, Leucocyte Common Antigen/RPE-Cy5 , Clone T29/33	21
FR700	Mo a Hu	CD45/FITC , Clone T29/33 + CD14/RPE , Clone TÜK4, MultiMix™ Dual-Color	26
F0800	Mo a Hu	CD45R0/FITC , Clone UCHL1	21
R0843	Mo a Hu	CD45R0/RPE , Clone UCHL1	21
R7086	Mo a Hu	CD45RA/RPE , Clone 4KB5	21
F7143	Mo a Hu	CD54, ICAM-1/FITC , Clone 6.5B5	21
R7251	Mo a Hu	CD56/RPE , Clone C5.9	22
TC661	Mo a Hu	CD56/RPE , Clone C5.9 + CD3/APC , Clone UCHT1 + CD16/FITC , Clone DJ130c, MultiMix™ Triple-Color	28
TC674	Mo a Hu	CD56/RPE , Clone C5.9 + CD19/APC , Clone HD37 + CD38/FITC , Clone AT13/5, MultiMix™ Triple-Color Reagent	29
TC671	Mo a Hu	CD56/RPE , Clone C5.9 + CD38/FITC , Clone AT13/5 + CD45/APC , Clone 2D1, MultiMix™ Triple-Color Reagent	29
R7127	Mo a Hu	CD56/RPE , Clone MOC-1	22
F7270	Mo a Hu	CD57/FITC , Clone TB01	22
C7280	Mo a Hu	CD61, Platelet Glycoprotein IIIa/APC , Clone Y2/51	22
F0803	Mo a Hu	CD61, Platelet Glycoprotein IIIa/FITC , Clone Y2/51	22
TC687	Mo a Hu	CD61/APC , Clone Y2/51 + CD34/RPE , Clone BIRMA-K3 + CD41/FITC , Clone 5B12, MultiMix™ Triple-Color Reagent	29
C7278	Mo a Hu	CD64, Fc Gamma Receptor I/APC , Clone 10.1	22
R7219	Mo a Hu	CD64, Fc Gamma Receptor I/RPE , Clone 10.1	22
F7112	Mo a Hu	CD66abce/FITC , Clone Kat4c	22
F7135	Mo a Hu	CD68/FITC , Clone KP1	22
R7173	Mo a Hu	CD69/RPE , Clone FN50	22
F0829	Mo a Hu	CD71, Transferrin Receptor/FITC , Clone Ber-T9	22
TC675	Mo a Hu	CD71/FITC , Clone Ber-T9 + CD45/APC , Clone 2D1 + CD235a/RPE , Clone JC159, MultiMix™ Triple-Color Reagent	29
C7252	Mo a Hu	CD79αcy/APC , Clone HM57	22
R7159	Mo a Hu	CD79αcy/RPE , Clone HM57	22
TC667	Mo a Hu	CD79αcy/RPE , Clone HM57 + CD3/APC , Clone UCHT1 + MPO/FITC , Clone MPO-7, MultiMix™ Triple-Color	30
F7137	Mo a Hu	CD79β/FITC , Clone SN8	22
R7272	Mo a Hu	CD79β/RPE , Clone SN8	22
F7274	Mo a Hu	CD90/FITC , Clone 5E10	23
F7138	Mo a Hu	CD103, Mucosa Lymphocyte Antigen/FITC , Clone Ber-ACT8	23
R7188	Mo a Hu	CD103, Mucosa Lymphocyte Antigen/RPE , Clone Ber-ACT8	23
TC665	Mo a Hu	CD103/FITC , Clone Ber-ACT8 + CD11c/RPE , Clone KB90 + CD19/APC , Clone HD37, MultiMix™ Triple-Color Reagent	30
C7244	Mo a Hu	CD117, c-kit/APC , Clone 104D2	23
R7145	Mo a Hu	CD117, c-kit/RPE , Clone 104D2	23
TC685	Mo a Hu	CD117/APC , Clone 104D2 + CD13/FITC , Clone WM-47 + HLA-DR Antigen/RPE , Clone AB3, MultiMix™ Triple-Color Reagent	28
TC686	Mo a Hu	CD117/APC , Clone 104D2 + CD33/FITC , Clone WM-54 + CD34/RPE , Clone BIRMA-K3, MultiMix™ Triple-Color Reagent	29
		CD117 , see also: c-kit	
C7256	Mo a Hu	CD138/APC , Clone MI15	23
R7229	Mo a Hu	CD138/RPE , Clone MI15	23
F0870	Mo a Hu	CD235a, Glycophorin A/FITC , Clone JC159	23
R7078	Mo a Hu	CD235a, Glycophorin A/RPE , Clone JC159	23
TC675	Mo a Hu	CD235a/RPE , Clone JC159 + CD45/APC , Clone 2D1 + CD71/FITC , Clone Ber-T9, MultiMix™ Triple-Color Reagent	29
		c-kit , see also: CD117, c-kit	
		Complement Receptor 3 , see: CD11b, C3bi Receptor	
X0931		Control Reagent, Mouse IgG1 , Unconjugated	33
X0968		Control Reagent, Mouse IgG1/APC	32
X0927		Control Reagent, Mouse IgG1/FITC	32
X0928		Control Reagent, Mouse IgG1/RPE	32
X0955		Control Reagent, Mouse IgG1/RPE-Cy5	32
X0932		Control Reagent, Mouse IgG1/FITC + Mouse IgG1/RPE , MultiMix™ Dual-Color	32
X0949		Control Reagent, Mouse IgG1/FITC + Mouse IgG2a/RPE , MultiMix™ Dual-Color	32
X0978		Control Reagent, Mouse IgG1/APC + Mouse IgG1/FITC + Mouse IgG1/RPE , MultiMix™ Triple-Color	33
X0956		Control Reagent, Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/RPE-Cy5 , MultiMix™ Triple-Color	33

Alphabetical Index (continued)

Code	Source	Product	See Page
X0979		Control Reagent, Mouse IgG1/FITC + Rabbit F(ab')₂/APC + Rabbit F(ab')₂/RPE, MultiMix™ Triple-Color	33
X0943		Control Reagent, Mouse IgG2a, Unconjugated	33
X0933		Control Reagent, Mouse IgG2a/FITC	32
X0950		Control Reagent, Mouse IgG2a/RPE	32
X0944		Control Reagent, Mouse IgG2b, Unconjugated	33
X0941		Control Reagent, Mouse IgG2b/FITC	32
X0942		Control Reagent, Mouse IgM, Unconjugated	33
X0934		Control Reagent, Mouse IgM/FITC	32
X0998		Control Reagent, Rabbit F(ab')₂/APC	32
X0929		Control Reagent, Rabbit F(ab')₂/FITC	32
X0930		Control Reagent, Rabbit F(ab')₂/RPE	32
X0952		Control Reagent, Rabbit F(ab')₂/FITC + Mouse IgG1/RPE, MultiMix™ Dual-Color	32
X0935		Control Reagent, Rabbit F(ab')₂/FITC + Rabbit F(ab')₂/RPE, MultiMix™ Dual-Color	32
X0957		Control Reagent, Rabbit F(ab')₂/FITC + Rabbit F(ab')₂/RPE + Mouse IgG1/RPE-Cy5, MultiMix™ Triple-Color	33
S2366		Count-Control Beads, CytoCount™ (150 Tests)	35
S2366		CytoCount™, Count-Control Beads for Flow Cytometry (150 Tests)	35
E			
S2364		EasyLyse™, Erythrocyte-Lysing Reagent (300 Tests)	36
K2370		Enumeration Kit for CD34-Positive Cells, CD34Count Kit (50 Duplicate Tests)	35
F0860	Mo a Hu	Epithelial Antigen/FITC, Clone Ber-EP4	23
S2364		Erythrocyte-Lysing Reagent, EasyLyse™ (300 Tests)	36
S3325		Erythrocyte-Lysing Reagent, Uti-Lyse™(250 Tests)	36
F			
		Fc Gamma Receptor I, see: CD64, Fc Gamma Receptor I	
		Fc Gamma Receptor III, see: CD16, Fc Gamma Receptor III	
K2311		Fixation and Permeabilization Kit for Flow Cytometry, IntraStain (100 Tests)	36
K0110		FluoroSpheres, 6-Peak Calibration Beads for Daily Monitoring of the Flow Cytometer (40 Tests)	35
		FMC7, see: B Cell, Clone FMC7	
G			
		Glycophorin A, see: CD235a, Glycophorin A	
		Glycoprotein Ib, see: CD42b, Platelet Glycoprotein Ib	
		Glycoprotein IIb, see: CD41, Platelet Glycoprotein IIb	
		Glycoprotein IIIa, see: CD61, Platelet Glycoprotein IIIa	
H			
R7000	Mo a Hu	HLA-ABC Antigen/RPE, Clone W6/32	23
F0817	Mo a Hu	HLA-DP, DQ, DR Antigen/FITC, Clone CR3/43	23
FR867	Mo a Hu	HLA-DP, DQ, DR Antigen/FITC, Clone CR3/43 + CD3/RPE, Clone UCHT1, MultiMix™ Dual-Color	26
F7266	Mo a Hu	HLA-DR Antigen/FITC, Clone AB3	24
R7267	Mo a Hu	HLA-DR Antigen/RPE, Clone AB3	24
TC685	Mo a Hu	HLA-DR Antigen/RPE, Clone AB3 + CD13/FITC, Clone WM-47 + CD117/APC, Clone 104D2, MultiMix™ Triple-Color Reagent	28
I			
		ICAM-1, see: CD54, ICAM-1	
F0188	Rb a Hu	IgA/FITC, Rabbit F(ab')₂	24
F0189	Rb a Hu	IgD/FITC, Rabbit F(ab')₂	24
R5112	Rb a Hu	IgD/RPE, Rabbit F(ab')₂	24
F0185	Rb a Hu	IgG/FITC, Rabbit F(ab')₂	24
F0058	Rb a Hu	IgM/FITC, Rabbit F(ab')₂	24
R5111	Rb a Hu	IgM/RPE, Rabbit F(ab')₂	24
		IL-2R, see: CD25, Interleukin-2 Receptor	

Alphabetical Index (continued)

Code	Source	Product	See Page
F0801	Mo a Hu	Interleukin-2 Receptor, CD25/FITC , Clone ACT-1	20
R0811	Mo a Hu	Interleukin-2 Receptor, CD25/RPE , Clone ACT-1	20
K2311		IntraStain , Fixation and Permeabilization Kit for Flow Cytometry (100 Tests)	36
		Isotype Reagents , see: Control Reagents	
		K	
C0222	Rb a Hu	Kappa Light Chains/APC , Rabbit F(ab') ₂	24
F0434	Rb a Hu	Kappa Light Chains/FITC , Rabbit F(ab') ₂	24
R0436	Rb a Hu	Kappa Light Chains/RPE , Rabbit F(ab') ₂	24
FR048	a Hu	Kappa Light Chains/FITC , Rabbit F(ab') ₂ + CD19/RPE , Clone HD37, MultiMix™ Dual-Color	26
FR481	Rb a Hu	Kappa Light Chains/FITC , Rabbit F(ab') ₂ + Lambda Light Chains/RPE , Rabbit F(ab') ₂ , MultiMix™ Dual-Color	26
TC051	a Hu	Kappa Light Chains/FITC , Rabbit F(ab') ₂ + Lambda Light Chains/RPE , Rabbit F(ab') ₂ + CD19/RPE-Cy5 , Clone HD37, MultiMix™ Triple-Color	31
TC669	a Hu	Kappa Light Chains/APC , Rabbit F(ab') ₂ + CD19/FITC , Clone HD37 + Lambda Light Chains/RPE , Rabbit F(ab') ₂ , MultiMix™ Triple-Color	28
TC670	a Hu	Kappa Light Chains/APC , Rabbit F(ab') ₂ + Lambda Light Chains/RPE , Rabbit F(ab') ₂ + Plasma Cell/FITC , Clone VS38c, MultiMix™ Triple-Color	31
		Ki-1 Antigen , see: CD30	
F0788	Mo a Hu	Ki-67 Antigen/FITC , Clone Ki-67	24
F7268	Mo a Hu	Ki-67 Antigen/FITC , Clone MIB-1	24
		KIT , see: CD117, c-kit	
		L	
F0435	Rb a Hu	Lambda Light Chains/FITC , Rabbit F(ab') ₂	24
R0437	Rb a Hu	Lambda Light Chains/RPE , Rabbit F(ab') ₂	24
FR044	a Hu	Lambda Light Chains/FITC , Rabbit F(ab') ₂ + CD19/RPE , Clone HD37, MultiMix™ Dual-Color	26
FR481	Rb a Hu	Lambda Light Chains/RPE , Rabbit F(ab') ₂ + Kappa Light Chains/FITC , Rabbit F(ab') ₂ , MultiMix™ Dual-Color	26
TC669	a Hu	Lambda Light Chains/RPE , Rabbit F(ab') ₂ + CD19/FITC , Clone HD37 + Kappa Light Chains/APC , Rabbit F(ab') ₂ , MultiMix™ Triple-Color	28
TC051	a Hu	Lambda Light Chains/RPE , Rabbit F(ab') ₂ + Kappa Light Chains/FITC , Rabbit F(ab') ₂ + CD19/RPE-Cy5 , Clone HD37, MultiMix™ Triple-Color	31
TC670	a Hu	Lambda Light Chains/RPE , Rabbit F(ab') ₂ + Kappa Light Chains/APC , Rabbit F(ab') ₂ + Plasma Cell/FITC , Clone VS38c, MultiMix™ Triple-Color	31
		LeuCAMb , see: CD11b, C3bi Receptor	
		LeuCAMc , see: CD11c, Protein 150,95	
		Leucocyte Common Antigen , see: CD45, Leucocyte Common Antigen	
		Leukosialin , see: CD43	
		Lewis X Antigen , see: CD15	
S2364		Lysing Reagent for Erythrocytes, EasyLyse™ (300 Tests)	36
S3325		Lysing Reagent for Erythrocytes, Uti-Lyse™ (250 Tests)	36
F0372	Rb a Hu	Lysozyme EC 3.2.1.17/FITC	24
		M	
		MHC-I , see: HLA-ABC Antigen	
		MHC-II , see: HLA-DP, DQ, DR Antigen	
		MIB-1 , see: Ki-67 Antigen, Clone MIB-1	
		MLA , see: CD103, Mucosa Lymphocyte Antigen	
X0931		Mouse IgG1 , Control Reagent	33
X0968		Mouse IgG1/APC , Control Reagent	32
X0927		Mouse IgG1/FITC , Control Reagent	32
X0928		Mouse IgG1/RPE , Control Reagent	32
X0955		Mouse IgG1/RPE-Cy5 , Control Reagent	32
X0932		Mouse IgG1/FITC + Mouse IgG1/RPE , Control Reagent, MultiMix™ Dual-Color	32
X0978		Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/APC , Control Reagent, MultiMix™ Triple-Color for Flow Cytometry	33
X0956		Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/RPE-Cy5 , Control Reagent, MultiMix™ Triple-Color	33
X0949		Mouse IgG1/FITC + Mouse IgG2a/RPE , Control Reagent, MultiMix™ Dual-Color	32
X0979		Mouse IgG1/FITC + Rabbit F(ab')₂/RPE + Rabbit F(ab')₂/APC , Control Reagent, MultiMix™ Triple-Color	33
X0943		Mouse IgG2a , Control Reagent	33

Alphabetical Index (continued)

Code	Source	Product	See Page
X0933		Mouse IgG2a/FITC , Control Reagent	32
X0950		Mouse IgG2a/RPE , Control Reagent	32
X0944		Mouse IgG2b , Control Reagent	33
X0941		Mouse IgG2b/FITC , Control Reagent	32
X0942		Mouse IgM , Control Reagent	33
X0934		Mouse IgM/FITC , Control Reagent	32
F0479	Gt a	Mouse Immunoglobulins/FITC , Goat F(ab') ₂	34
R0480	Gt a	Mouse Immunoglobulins/RPE , Goat F(ab') ₂	34
F0313	Rb a	Mouse Immunoglobulins/FITC , Rabbit F(ab') ₂	34
R0439	Rb a	Mouse Immunoglobulins/RPE , Rabbit F(ab') ₂	34
		Mucosa Lymphocyte Antigen (MLA) , see: CD103, Mucosa Lymphocyte Antigen (MLA)	
		MultiMix™ Reagents	26-31
		Muramidase , see: Lysozyme EC 3.2.1.17	
C7246	Mo a Hu	Myeloperoxidase/APC , Clone MPO-7	24
F0714	Mo a Hu	Myeloperoxidase/FITC , Clone MPO-7	24
PR704	Mo a Hu	Myeloperoxidase/PerCP-Cy5.5 , Clone MPO-7	24
R7209	Mo a Hu	Myeloperoxidase/RPE , Clone MPO-7	24
TC667	Mo a Hu	Myeloperoxidase/FITC , Clone MPO-7 + CD3/APC , Clone UCHT1 + CD79αcy/RPE , Clone HM57, MultiMix™ Triple-Color	30
		N	
		Neutral Endopeptidase 24.11 , see: CD10	
		P	
K2311		Permeabilization and Fixation Kit for Flow Cytometry, IntraStain (100 Tests)	36
S3024		Phosphate-Buffered Saline (PBS), pH 7.0 (6 x 1L)	34
F7149	Mo a Hu	Plasma Cell/FITC , Clone VS38c	25
TC670	a Hu	Plasma Cell/FITC , Clone VS38c + Kappa Light Chains/APC , Rabbit F(ab') ₂ + Lambda Light Chains/RPE , Rabbit F(ab') ₂ , MultiMix™ Triple-Color	31
F7101	Mo a Hu	Plasma Cell, CD38/FITC , Clone AT13/5	21
R7144	Mo a Hu	Plasma Cell, CD38/RPE , Clone AT13/5	21
		Plasma Cell , see also: CD138, Clone MI15	
		Platelet Glycoprotein Ib , see: CD42b, Platelet Glycoprotein Ib	
		Platelet Glycoprotein IIb , see: CD41, Platelet Glycoprotein IIb	
		Platelet Glycoprotein IIIa , see: CD61, Platelet Glycoprotein IIIa	
K5327		PNA Telomere Kit/FITC (20 Duplicate Tests)	37
F0713	Mo a Hu	Protein 150,95, CD11c/FITC , Clone KB90	19
		Q	
K0078		QIFIKIT® (10 Calibrations)	36
		R	
X0998		Rabbit F(ab')₂/APC , Control Reagent	32
X0929		Rabbit F(ab')₂/FITC , Control Reagent	32
X0930		Rabbit F(ab')₂/RPE , Control Reagent	32
X0952		Rabbit F(ab')₂/FITC + Mouse IgG1/RPE , Control Reagent, MultiMix™ Dual-Color	32
X0935		Rabbit F(ab')₂/FITC + Rabbit F(ab')₂/RPE , Control Reagent, MultiMix™ Dual-Color	32
X0957		Rabbit F(ab')₂/FITC + Rabbit F(ab')₂/RPE + Mouse IgG1/RPE-Cy5 , Control Reagent, MultiMix™ Triple-Color	33
F0054	Sw a	Rabbit Immunoglobulins/FITC , Swine F(ab') ₂	34
		S	
		Sialophorin , see: CD43	
		Syndecan-1 , see: CD138	
		T	
		TdT , see: Terminal Deoxynucleotidyl Transferase	
K5327		Telomere PNA Kit/FITC (20 Duplicate Tests)	36
F7139	Mo a Hu	Terminal Deoxynucleotidyl Transferase/FITC , Clone HT-6	25

Alphabetical Index (continued)

Code	Source	Product	See Page
TC668	Mo a Hu	Terminal Deoxynucleotidyl Transferase/FITC , Clone HT-6 + CD3/APC , Clone UCHT1 + CD22/RPE , Clone 4KB128, MultiMix™ Triple-Color	31
F0829	Mo a Hu	Transferrin Receptor, CD71/FITC , Clone Ber-T9	22
		U	
S3325		Uti-Lyse™, Erythrocyte-Lysing Reagent (250 Tests)	36

Introduction to Flow Cytometry

Flow cytometric immunophenotyping is becoming an important tool for the diagnosis of acute and chronic leukemia. The method is also being used in conjunction with bone marrow or peripheral blood stem cell transplantation.

We have built up a particularly strong position in leukemia immunophenotyping with a broad panel of products for this area, and the recognized high quality of our products has made them widely used in hospitals and research laboratories.

Single-Color Conjugates

Our wide range of high-quality, single-color conjugated antibodies for use in flow cytometry includes both polyclonal and monoclonal antibodies conjugated with either APC, FITC, PE, PerCP, PerCP-Cy5.5, RPE or RPE-Cy5. Not all antibodies are available in all conjugated variants.

MultiMix™ Panel

Our MultiMix™ panel is a comprehensive and carefully selected antibody fluorochrome combinations panel. The antibody and fluorochrome combinations have been designed to gain the best sensitivity of the analysis on most flow cytometers. The MultiMix™ Triple-Color panels are composed of the well-established fluorochrome antibody conjugates FITC, RPE and APC.

The panels also include polyclonal kappa light chain conjugates and lambda light chain conjugates, known for their high quality and specificity.

Kits and Accessories

We offer kits for the study of CD34 count and telomeres as well as lysing, fixation, permeabilization and calibration.

Reagents Supplied

Reagents are supplied in liquid form with sodium azide as preservative. All conjugated monoclonal antibodies have been prepared from purified antibodies, while the majority of the polyclonal antibodies are affinity-isolated F(ab')₂ fragments.

Overview, Single-Color Reagents

Antibody Description		Available Form / Code						
Anti-Human	Clone	APC	FITC	PB	PerCP	PerCP-Cy5.5	RPE	RPE-Cy5
B Cell	FMC7		F7110					
BCL2 Oncoprotein	124		F7053					
CD1a	NA1/34		F7141				R7189	
CD2	MT910		F0767				R0807	
CD3	UCHT1	C7225	F0818	PB982	PR702		R0810	C7067
CD4	MT310	C7226	F0766				R0805	
CD5	DK23	C7242	F0795				R0842	
CD7	CBC.37		F7276				R7277	
CD7	DK24		F0789					
CD8	DK25	C7227	F0765	PB984			R0806	C7079
CD10	SS2/36		F0826				R0848	
CD11b	2LPM19c						R0841	
CD11c	KB90		F0713					
CD13	WM-47		F0831				R0715	
CD14	TÜK4		F0844				R0864	
CD15	C3D-1		F0830					
CD16	DJ130c		F7011				R7012	
CD19	HD37	C7224	F0768	PB985		PR703	R0808	C7066
CD20	B-Ly1		F0799				R7013	C7132
CD22	4KB128	C7281	F7060				R7061	
CD23	MHM6		F7062				R7108	
CD24	SN3		F7134					
CD25	ACT-1		F0801				R0811	
CD27	M-T271		F7178				R7179	
CD28	CD28.1						R7164	
CD30	Ber-H2		F0849					
CD33	WM-54		F0832				R0745	
CD34 Class III	BIRMA-K3	C7238	F7081			PR706	R7125	
CD38	AT13/5		F7101				R7144	
CD41	5B12		F7088				R7058	
CD42b	AN51						R7014	
CD43	DF-T1		F7102					
CD45	2D1				PR701			
CD45	T29/33	C7230	F0861	PB986			R7087	C7099
CD45R0	UCL1		F0800				R0843	
CD45RA	4KB5						R7086	
CD54	6.5B5		F7143					
CD56	C5.9						R7251	
CD56	MOC-1						R7127	
CD57	TB01		F7270					
CD61	Y2/51	C7280	F0803					
CD64	10.1	C7278					R7219	
CD66abce	Kat4c		F7112					
CD68	KP1		F7135					
CD69	FN50						R7173	
CD71	Ber-T9		F0829					
CD79αcy	HM57	C7252					R7159	
CD79β	SN8		F7137				R7272	
CD90	5E10		F7274					
CD103	Ber-ACT8		F7138				R7188	
CD117	104D2	C7244					R7145	
CD138	MI15	C7256					R7229	

Overview, Single-Color Reagents (continued)

Antibody Description		Available Form/Code						
Anti-Human	Clone	APC	FITC	PB	PerCP	PerCP-Cy5.5	RPE	RPE-Cy5
CD235a	JC159		F0870				R7078	
Epithelial Antigen	Ber-EP4		F0860					
HLA-ABC Antigen	W6/32						R7000	
HLA-DP, DQ, DR Antigen	CR3/43		F0817					
HLA-DR Antigen	AB3		F7266				R7267	
IgA*	Polyclonal Rabbit		F0188					
IgD*	Polyclonal Rabbit		F0189				R5112	
IgG*	Polyclonal Rabbit		F0185					
IgM*	Polyclonal Rabbit		F0058				R5111	
Kappa Light Chains*	Polyclonal Rabbit	C0222	F0434				R0436	
Ki-67 Antigen	Ki-67		F0788					
Ki-67 Antigen	MIB-1		F7268					
Lambda Light Chains*	Polyclonal Rabbit		F0435				R0437	
Lysozyme	Polyclonal Rabbit		F0372					
Myeloperoxidase	MPO-7	C7246	F0714			PR704	R7209	
Plasma Cell	VS38c		F7149					
Terminal Deoxynucleotidyl Transferase	HT-6		F7139					

* F(ab')₂ fragment of affinity-isolated antibody

Overview, Control Reagents for Single-Color Reagents

Control Reagent	Available Form/Code			
	APC	FITC	RPE	RPE-Cy5
Mouse IgG1	X0968	X0927	X0928	X0955
Mouse IgG2a		X0933	X0950	
Mouse IgG2b		X0941		
Mouse IgM		X0934		
Rabbit F(ab')₂	X0998	X0929	X0930	



Overview, Dual-Color Reagents

Anti-Human	Clones	Code
CD2/FITC	MT910	FR894
CD19/RPE	HD37	
CD3/FITC	UCHT1	FR875
CD4/RPE	MT310	
CD3/FITC	UCHT1	FR881
CD8/RPE	DK25	
CD3/FITC	UCHT1	FR866
CD19/RPE	HD37	
CD4/FITC	MT310	FR868
CD8/RPE	DK25	
CD5/FITC	DK23	FR882
CD19/RPE	HD37	
CD5/FITC	DK23	FR729
CD20/RPE	B-Ly1	

Anti-Human	Clones	Code
CD10/FITC	SS2/36	FR883
CD19/RPE	HD37	
CD45/FITC	T29/33	FR700
CD14/RPE	TÜK4	
HLA-DP, DQ, DR Antigen/FITC	CR3/43	FR867
CD3/RPE	UCHT1	
Kappa Light Chains/ FITC*	Polyclonal Rabbit	FR048
CD19/RPE	HD37	
Kappa Light Chains/ FITC*	Polyclonal Rabbit	FR481
Lambda Light Chains/RPE*	Polyclonal Rabbit	
Lambda Light Chains/FITC*	Polyclonal Rabbit	FR044
CD19/RPE	HD37	

* F(ab')₂ fragment of affinity-isolated antibody

Overview, Control Reagents for Dual-Color Reagents

Control Reagent	Code
Mouse IgG1/FITC + Mouse IgG1/RPE	X0932
Mouse IgG1/FITC + Mouse IgG2a/RPE	X0949
Rabbit F(ab')₂/FITC + Mouse IgG1/RPE	X0952
Rabbit F(ab')₂/FITC + Rabbit F(ab')₂/RPE	X0935

Overview, Triple-Color Reagents

FITC/RPE/APC Reagent Line

Anti-Human	Clones	Code
B Cell (FMC7)/FITC	FMC7	TC683
CD23/RPE	MHM6	
CD19/APC	HD37	
CD2/FITC	MT910	TC677
CD7/RPE	CBC.37	
CD3/APC	UCHT1	
CD2/FITC	MT910	TC666
CD34 Class III/RPE	BIRMA-K3	
CD5/APC	DK23	
CD3/FITC	UCHT1	TC690
CD19/RPE	HD37	
CD45/APC	2D1	
CD5/FITC	DK23	TC664
CD10/RPE	SS2/36	
CD19/APC	HD37	
CD8/FITC	DK25	TC660
CD4/RPE	MT310	
CD3/APC	UCHT1	
CD13/FITC	WM-47	TC685
HLA-DR Antigen/RPE	AB3	
CD117/APC	104D2	
CD16/FITC	DJ130c	TC661
CD56/RPE	C5.9	
CD3/APC	UCHT1	
CD19/FITC	HD37	TC689
CD34/RPE	BIRMA-K3	
CD22/APC	4KB128	
CD19/FITC	HD37	TC669
Lambda Light Chains/RPE*	Polyclonal Rabbit	
Kappa Light Chains/APC*	Polyclonal Rabbit	

Anti-Human	Clones	Code
CD20/FITC	B-Ly1	TC663
CD5/RPE	DK23	
CD19/APC	HD37	
CD33/FITC	WM-54	TC686
CD34/RPE	BIRMA-K3	
CD117/APC	104D2	
CD38/FITC	AT13/5	TC674
CD56/RPE	C5.9	
CD19/APC	HD37	
CD38/FITC	AT13/5	TC671
CD56/RPE	C5.9	
CD45/APC	2D1	
CD41/FITC	5B12	TC687
CD34/RPE	BIRMA-K3	
CD61/APC	Y2/51	
CD71/FITC	Ber-T9	TC675
CD235a/RPE	JC159	
CD45/APC	2D1	
CD103/FITC	Ber-ACT8	TC665
CD11c/RPE	KB90	
CD19/APC	HD37	
MPO/FITC	MPO-7	TC667
CD79αcy/RPE	HM57	
CD3/APC	UCHT1	
Plasma Cell/FITC	VS38c	TC670
Lambda Light Chains/RPE*	Polyclonal Rabbit	
Kappa Light Chains/APC*	Polyclonal Rabbit	
TdT/FITC	HT-6	TC668
CD22/RPE	4KB128	
CD3/APC	UCHT1	

* F(ab')₂ fragment of affinity-isolated antibody

FITC/RPE/RPE-Cy5 Reagent Line

Anti-Human	Clones	Code
CD8/FITC	DK25	TC641
CD4/RPE	MT310	
CD3/RPE-Cy5	UCHT1	
Kappa Light Chains/FITC*	Polyclonal Rabbit	TC051
Lambda Light Chains/RPE*	Polyclonal Rabbit	
CD19/RPE-Cy5	HD37	

* F(ab')₂ fragment of affinity-isolated antibody

Overview, Control Reagents for Triple-Color Reagents

FITC/RPE/APC Reagent Line

Control Reagent	Code
Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/APC	X0978
Mouse IgG1/FITC + Rabbit F(ab') ₂ /RPE + Rabbit F(ab') ₂ /APC	X0979

FITC/RPE/RPE-Cy5 Reagent Line

Control Reagent	Code
Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/RPE-Cy5	X0956
Rabbit F(ab') ₂ /FITC + Rabbit F(ab') ₂ /RPE + Mouse IgG1/RPE-Cy5	X0957

Overview, Secondary Antibody Conjugates

Antibody Description		Available Form/Code	
Anti-Mouse	Clone	FITC	RPE
Immunoglobulins	Polyclonal Goat	F0479	R0480
Immunoglobulins	Polyclonal Rabbit	F0313	R0439
Anti-Rabbit			
Immunoglobulins	Polyclonal Swine	F0054	

Single-Color Reagents

These primary antibodies are conjugated with a single fluorochrome for use in flow cytometry. After conjugation, unreacted fluorochromes are completely removed by gel filtration. Below is a list of the excitation and emission wavelength of the different fluorochromes as well as the approximate molar fluorochrome/antibody ratio for each fluorochrome.

Allophycocyanin (APC) Conjugates

The molar APC/antibody ratio is approximately 1. APC conjugates can be excited at 633 nm or 635 nm (red lasers), and emit light at 660 nm.

Fluorescein (FITC) Conjugates

The molar FITC/antibody ratio is approximately 4. FITC conjugates can be excited at 488 nm (blue argon laser) and emit light at 530 nm.

Pacific Blue (PB) Conjugates

The molar PB/antibody ratio is approximately 6. PB conjugates can be excited at 406 nm (violet laser) and emit light at 456 nm.

Monoclonal Mouse Anti-Human **B Cell**

Clone: FMC7

Isotype: IgM, kappa

☐ F7110 FITC. Purified 100 tests, 1 mL

The target for this antibody is probably a conformational epitope on CD20. The antibody labels a subpopulation of functionally mature B cells, and together with a panel of other antibodies it is considered essential for the initial evaluation of B-cell chronic lymphoproliferative disorders.

Monoclonal Mouse Anti-Human

BCL2 Oncoprotein

Clone: 124

Isotype: IgG1, kappa

RUO F7053 FITC. Purified 100 tests, 1 mL

Reacts with the BCL2 oncoprotein encoded by a gene involved in the t(14;18) chromosomal translocation. The BCL2 oncoprotein plays a central role in apoptosis (programmed cell death), acting as an inhibitor of the apoptotic process, and it has given name to a family of proteins engaged in the promotion/inhibition of apoptosis (1).

Reference:

1. Chao DT, Korsmeyer SJ. BCL-2 family: regulators of cell death. *Annu Rev Immunol* 1998;16:395-419.

C3bi Receptor

See: CD11b, C3bi Receptor

Monoclonal Mouse Anti-Human

CD1a

Clone: NA1/34

Isotype: IgG2a, kappa

☐ F7141 FITC. Purified 100 tests, 1 mL

☐ R7189 RPE. Purified 100 tests, 1 mL

The CD1a antigen is a transmembrane α -chain non-covalently associated with β -2-microglobulin. CD1a is expressed by cortical thymocytes and Langerhans' cells in normal, dysplastic and neoplastic tissue.

Monoclonal Mouse Anti-Human

CD2

Clone: MT910

Isotype: IgG1, kappa

☐ F0767 FITC. Purified 100 tests, 1 mL

☐ R0807 RPE. Purified 100 tests, 1 mL

Reacts with virtually all thymocytes, T lymphocytes and NK cells. CD2 is a valuable pan-T marker for normal and neoplastic T cells.

Peridinin Chlorophyll Protein Complex (PerCP) Conjugates

The molar PerCP/antibody ratio is approximately 2. PerCP conjugates can be excited at 488 nm (blue argon laser) and emit light at 676 nm.

Peridinin Chlorophyll Protein Complex-Cy5.5 (PerCP-Cy5.5) Conjugates

The molar PerCP-Cy5.5/antibody ratio of the conjugate is approximately 1. The excitation energy, absorbed at 488 nm by PerCP is transferred to Cy5.5*, which emits light at 695 nm.

Phycoerythrin (RPE) Conjugates

The molar RPE/antibody ratio is approximately 1. RPE conjugates can be excited at 488 nm (blue argon laser) and emit light at 570 nm.

Phycoerythrin-Cy5 (RPE-Cy5) Conjugates

The molar RPE-Cy5/antibody ratio of the conjugate is approximately 1. The excitation energy, absorbed at 488 nm by RPE, is transferred to Cy5*, which emits light at 670 nm.

Monoclonal Mouse Anti-Human **CD3**

Clone: UCHT1

Isotype: IgG1, kappa

☐ C7225 APC. Purified 100 tests, 1 mL

☐ F0818 FITC. Purified 100 tests, 1 mL

RUO PB982 Pacific Blue. Purified 100 tests, 1 mL

☐ PR702 PerCP. Purified 100 tests, 1 mL

☐ R0810 RPE. Purified 100 tests, 1 mL

☐ C7067 RPE-Cy5. Purified 100 tests, 1 mL

Anti-CD3, UCHT1, reacts with the ϵ -chain of the CD3 part of the TCR/CD3 complex. The antibody is a pan-T reagent for the detection of normal and neoplastic T cells.

Monoclonal Mouse Anti-Human

CD4

Clone: MT310

Isotype: IgG1, kappa

☐ C7226 APC. Purified 100 tests, 1 mL

☐ F0766 FITC. Purified 100 tests, 1 mL

☐ R0805 RPE. Purified 100 tests, 1 mL

CD4 is a 55 kDa transmembrane glycoprotein expressed by helper/inducer T cells, 55-65% of mature peripheral blood T cells and by thymocyte subsets. CD4 is also expressed by monocytes/macrophages, Langerhans' cells and other dendritic cells. CD4 is not expressed by B cells.

Monoclonal Mouse Anti-Human

CD5

Clone: DK23

Isotype: IgG1, kappa

☐ C7242 APC. Purified 100 tests, 1 mL

☐ F0795 FITC. Purified 100 tests, 1 mL

☐ R0842 RPE. Purified 100 tests, 1 mL

CD5 is a 67 kDa transmembrane glycoprotein. CD5 appears early in thymocyte development and is expressed at low density on thymocytes and at high density on all mature T lymphocytes. CD5 is also expressed on a subpopulation of normal B cells. Antibodies to CD5 are well-suited for detecting normal and neoplastic T and B cells, e.g. in chronic lymphocytic leukemia and centrocytic lymphoma. A review on CD5+ B cells is given in reference 1.

Reference:

1. Hardy RR, Hayakawa K. CD5 B-cells, a fetal B-cell lineage. *Adv Immunol* 1994;55:297-339.

Monoclonal Mouse Anti-Human

CD7

Clone: CBC.37
Isotype: IgG2b, kappa

☐	F7276	FITC. Purified	100 tests, 1 mL
☐	R7277	RPE. Purified	100 tests, 1 mL

CD7 is a 40 kDa membrane-bound glycoprotein expressed on thymocytes, mature T cells, a large majority of natural killer cells, pluripotent hematopoietic stem cells, and progenitor cells of lymphoid and myeloid cells. CD7 is the earliest T-cell specific antigen to be expressed by lymphocytes and the only early marker to persist throughout differentiation.

In flow cytometry, F7276 labels CD7+ cells with a higher fluorescence intensity than F0789 and provides a better separation between positive and negative cells.

Monoclonal Mouse Anti-Human

CD7

Clone: DK24
Isotype: IgG2b, kappa

☐	F0789	FITC. Purified	100 tests, 1 mL
---	-------	----------------	-----------------

CD7 is a 40 kDa membrane-bound glycoprotein expressed on thymocytes, mature T cells, a large majority of natural killer cells, pluripotent hematopoietic stem cells, and progenitor cells of lymphoid and myeloid cells. CD7 is the earliest T-cell specific antigen to be expressed by lymphocytes and the only early marker to persist throughout differentiation.

Monoclonal Mouse Anti-Human

CD8

Clone: DK25
Isotype: IgG1, kappa

☐	C7227	APC. Purified	100 tests, 1 mL
☐	F0765	FITC. Purified	100 tests, 1 mL
RUO	PB984	Pacific Blue. Purified	100 tests, 1 mL
☐	R0806	RPE. Purified	100 tests, 1 mL
☐	C7079	RPE-Cy5. Purified*	100 tests, 1 mL

CD8 is a 68 kDa transmembrane glycoprotein expressed by class I major histocompatibility complex restricted, mature suppressor/cytotoxic T cells, the great majority of cortical thymocytes and approximately 30% of medullary thymocytes. In addition a proportion of $\gamma\delta$ T cells and NK cells express CD8.

Monoclonal Mouse Anti-Human

CD10

Clone: SS2/36
Isotype: IgG1, kappa

☐	F0826	FITC. Purified	100 tests, 1 mL
☐	R0848	RPE. Purified	100 tests, 1 mL

CD10 is a 100 kDa transmembrane protein. CD10 is expressed on immature T and B-precursor cells but is lost as the cells reach maturation. In lymphoid malignancies, CD10 is expressed in acute lymphoblastic leukemia (ALL) arising from precursor B cells, but is also observed in a proportion of T-cell ALL.

Additionally, it is expressed selectively in mature B-cell leukemia, including multiple myeloma, and in lymphomas.

Monoclonal Mouse Anti-Human

CD11b, C3bi Receptor

Clone: 2LPM19c
Isotype: IgG1, kappa

RUO	R0841	RPE. Purified	100 tests, 1 mL
-----	-------	---------------	-----------------

Reacts specifically with a leucocyte surface receptor (CR3) for the C3bi complement fragment. CD11b is expressed by most granulocytes and monocytes as well as a subpopulation of 'null cell' peripheral lymphocytes containing most of the circulating natural killer cells and by neoplastic cells in myelomonocytic and monocytic leukemia and, less frequently, in acute myeloid leukemia. CD11b (Mac-1) is the specific α -chain in the CD11b/CD18 molecule, which is a member of the LFA-1 and β 2 integrin subfamilies.

Monoclonal Mouse Anti-Human

CD11c, Protein 150,95

Clone: KB90
Isotype: IgG1, kappa

☐	F0713	FITC. Purified	100 tests, 1 mL
---	-------	----------------	-----------------

The antibody is directed against the CD11c chain of the CD11c/CD18 protein, which is an adhesion molecule of integrin type (integrin α X β 2). An alternative name is complement receptor type 4 or CR4. CD11c is expressed by a variety of cells, including granulocytes, monocytes, macrophages, NK cells, dendritic cells, hairy leukemia cells and malignant cells from B-cell lymphocytic leukemia.

Monoclonal Mouse Anti-Human

CD13

Clone: WM-47
Isotype: IgG1, kappa

☐	F0831	FITC. Purified	100 tests, 1 mL
☐	R0715	RPE. Purified	100 tests, 1 mL

CD13 is identical to aminopeptidase N. CD13 is expressed by committed granulocyte-monocyte progenitor (CFU-GM) cells, and normal granulocytic and monocytic cells at all stages of differentiation. Lymphocytes and platelets do not express CD13. Together with a panel of other antibodies, the CD13 antibody is considered essential for the initial evaluation of acute myeloid leukemias.

Monoclonal Mouse Anti-Human

CD14

Clone: TÜK4
Isotype: IgG2a, kappa

☐	F0844	FITC. Purified	100 tests, 1 mL
☐	R0864	RPE. Purified	100 tests, 1 mL

CD14 is a 55 kDa protein, which functions as a receptor for the complex of lipopolysaccharide (LPS) and LPS-binding protein (LPB). CD14 is primarily expressed on monocytes and macrophages. The antibody is of value in the detection of normal and neoplastic cells of the monocytic cell lineage, and in the immunophenotyping of acute myeloid leukemia.

Reference:

1. Wright SD, Ramos RA, Tobias PS, Ulevitch RJ, Mathison JC. CD14, a receptor for complexes of lipopolysaccharide (LPS) and LPS binding protein. *Science* 1990;249:1431-3.

Monoclonal Mouse Anti-Human

CD15

Clone: C3D-1
Isotype: IgM, kappa

☐	F0830	FITC. Purified	100 tests, 1 mL
---	-------	----------------	-----------------

Reacts with an oligosaccharide termed Lewis X (Le^x), or CD15, found on mature granulocytes and monocytes. Together with a panel of other antibodies, anti-CD15 is essential for the initial evaluation of acute myeloid leukemias.

Monoclonal Mouse Anti-Human

CD16, Fc Gamma Receptor III

Clone: DJ130c
Isotype: IgG1, kappa

☐	F7011	FITC. Purified	100 tests, 1 mL
☐	R7012	RPE. Purified	100 tests, 1 mL

Reacts with an antigen (Fc γ RIII) present on NK cells, neutrophils and basophils in peripheral blood and bone marrow.

* Product to be discontinued in 2018

**Monoclonal Mouse Anti-Human
CD19**

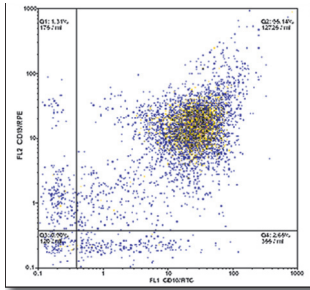
Clone: HD37
Isotype: IgG1, kappa

☒	C7224	APC. Purified	100 tests, 1 mL
☒	F0768	FITC. Purified	100 tests, 1 mL
RUO	PB985	Pacific Blue. Purified	100 tests, 1 mL
☒	PR703	PerCP-Cy5.5. Purified	100 tests, 0.5 mL
☒	R0808	RPE. Purified	100 tests, 1 mL
☒	C7066	RPE-Cy5. Purified	100 tests, 1 mL

CD19 is the broadest lineage-specific surface marker for B cells. CD19 is present on the surface of virtually all B lymphocytes, including early B progenitor cells (1), but it is lost upon terminal differentiation to plasma cells (2). CD19 is also expressed on follicular dendritic cells (1). B-lineage leukemias and lymphomas rarely lose the CD19 antigen (3).

References:

1. Pezzuto A, Dörken B, Feller A, Moldenhauer G, Schwartz R, Wernet P, et al. HD37 monoclonal antibody: a useful reagent for further characterization of 'non-T, non-B' lymphoid malignancies. In: Reinherz EL, Haynes BF, Nadler LM, Bernstein ID, editors. Leucocyte typing II. Proceedings of the 2nd International Workshop on Human Leukocyte Differentiation Antigens; 1984 Sept 17-20; Boston, USA, New York, Berlin, Heidelberg, Tokyo: Springer-Verlag; 1986. Volume 2, p. 391-402.
2. Sato S, Tedder TF. BC3. CD19 workshop panel report. In: Kishimoto T, Kikutani H, von dem Borne AEG, Goyert SM, Mason DY, Miyasaka M, et al., editors. Leucocyte typing VI. White cell differentiation antigens. Proceedings of the 6th International Workshop and Conference; 1996 Nov 10-14; Kobe, Japan. New York, London: Garland Publishing Inc.; 1997. p. 133-5.
3. Scheuermann RH, Racila E. CD19 antigen in leukaemia and lymphoma diagnosis and immunotherapy (review). Leuk Lymphoma 1995;18:385-97.



Cells from a case of acute lymphoblastic leukemia stained with Anti-CD10/FITC, Code F0826, and Anti-CD19/RPE, Code R0808.

**Monoclonal Mouse Anti-Human
CD20**

Clone: B-Ly1
Isotype: IgG1, kappa

☒	F0799	FITC. Purified	100 tests, 1 mL
☒	R7013	RPE. Purified	100 tests, 1 mL
☒	C7132	RPE-Cy5. Purified*	100 tests, 1 mL

Reacts with an epitope located on the surface of B cells. CD20 appears early during B-cell maturation and is lost shortly before the terminal plasma cell stage.

**Monoclonal Mouse Anti-Human
CD22**

Clone: 4KB128
Isotype: IgG1, kappa

☒	C7281	APC. Purified	100 tests, 1 mL
☒	F7060	FITC. Purified	100 tests, 1 mL
☒	R7061	RPE. Purified	100 tests, 1 mL

CD22 appears in the cytoplasm of late pro and early pre-B cells and on the surface of mature B lymphocytes. Anti-CD22 is a pan-B reagent that enables detection of normal and neoplastic B cells in peripheral blood.

**Monoclonal Mouse Anti-Human
CD23**

Clone: MHM6
Isotype: IgG1, kappa

☒	F7062	FITC. Purified	100 tests, 1 mL
☒	R7108	RPE. Purified	100 tests, 1 mL

CD23, the low affinity IgE (Fc-epsilon) receptor, is a glycoprotein present on a subpopulation of B lymphocytes in germinal centres, and on EBV-transformed B-lymphoblastoid cell lines. CD23 is also expressed on monocytes and dendritic cells.

**Monoclonal Mouse Anti-Human
CD24**

Clone: SN3
Isotype: IgG1, kappa

☒	F7134	FITC. Purified	100 tests, 1 mL
---	-------	----------------	-----------------

Reacts with an antigen expressed at multiple stages of B-cell development, beginning with early progenitor cells and continuing through maturation. The antigen is lost as cells differentiate to plasma cells.

**Monoclonal Mouse Anti-Human
CD25, Interleukin-2 Receptor**

Clone: ACT-1
Isotype: IgG1, kappa

☒	F0801	FITC. Purified	100 tests, 1 mL
☒	R0811	RPE. Purified	100 tests, 1 mL

CD25 is the low-affinity α -chain of the interleukin-2 receptor that has at least 3 subunits (α , β , γ). The CD25 antigen is expressed on activated T and B cells and activated macrophages. The antibody is of value in the study of activated lymphoid cells in normal and pathological specimens.

**Monoclonal Mouse Anti-Human
CD27**

Clone: M-T271
Isotype: IgG1, kappa

RUO	F7178	FITC. Purified	100 tests, 1 mL
RUO	R7179	RPE. Purified*	100 tests, 1 mL

CD27 is a transmembrane antigen expressed on the majority of human peripheral blood T cells, on a subpopulation of B cells, and on a portion of natural killer (NK) cells. CD27 acts in a co-stimulatory fashion with the ligand, CD70. During activation, the expression of CD27 is increased on B cells and unprimed T cells. The antibody is valuable for the study of B and T-cell activation and differentiation.

**Monoclonal Mouse Anti-Human
CD28**

Clone: CD28.1
Isotype: IgG1, kappa

RUO	R7164	RPE. Purified	100 tests, 1 mL
-----	-------	---------------	-----------------

CD28 is a T-cell surface molecule expressed on approximately 95% of CD4+ and 50% of CD8+ peripheral T cells. CD28 mediates adhesion to activated B cells through the ligands CD80 and CD86, and is believed to play an important role in the interaction between T and B cells. Enumeration of CD8+ CD28+ T cells may be of relevance in the study of HIV-1 infection, since anti-HIV activity predominantly resides in this subset.

**Monoclonal Mouse Anti-Human
CD30**

Clone: Ber-H2
Isotype: IgG1, kappa

☒	F0849	FITC. Purified	100 tests, 1 mL
---	-------	----------------	-----------------

CD30 is consistently expressed by Reed-Sternberg cells in Hodgkin's disease. It is also present in certain non-Hodgkin's lymphomas, e.g. anaplastic large cell lymphoma (ALCL), adult T-cell lymphoma/leukemia (ATLL), and, occasionally, in other types.

Monoclonal Mouse Anti-Human
CD33

Clone: WM-54
Isotype: IgG1, kappa

☐	F0832	FITC. Purified	100 tests, 1 mL
☐	R0745	RPE. Purified	100 tests, 1 mL

CD33 is a member of the Siglec family (sialic acid binding Ig-like lectins) and is also referred to as Siglec-3. The main cellular expression of CD33 is in myeloid progenitors, monocytes/macrophages and in granulocyte progenitors, while the expression is low in mature granulocytes. Together with a panel of other antibodies, the CD33 antibody is considered essential for the initial evaluation of acute myeloid leukemia (AML). The fluorescence intensity of RPE conjugates is, generally, somewhat higher than that of corresponding FITC conjugates. As CD33 is one of the more weakly expressed antigens, the use of R0745 may be preferred to F0832 in some situations.

Monoclonal Mouse Anti-Human
CD34 Class III

Clone: BIRMA-K3
Isotype: IgG1, kappa

☐	C7238	APC. Purified	50 tests, 0.5 mL
☐	F7081	FITC. Purified	100 tests, 1 mL
☐	PR706	PerCP-Cy5.5 Purified	100 tests, 0.5 mL
☐	R7125	RPE. Purified	100 tests, 1 mL

Reacts with an antigen present on immature hematopoietic cells. The antibody is of value in the identification of hematopoietic progenitor cells, and in the immunophenotyping of leukemias. R7125 is recommended in particular for the labeling of hematopoietic progenitor cells.

Monoclonal Mouse Anti-Human
CD38

Clone: AT13/5
Isotype: IgG1, kappa

☐	F7101	FITC. Purified	100 tests, 1 mL
☐	R7144	RPE. Purified	100 tests, 1 mL

CD38 is expressed on plasma cells, on early cells of B and T cell lineages, and on activated B and T cells. Approximately 60% of peripheral blood mononuclear CD34+ cells express CD38. The least mature CD34+ cells are characterized by a lack of CD38. The antibody is of value for immunophenotyping of acute leukemias, and in research studies on the role of activated T cells in immunodeficiency diseases and in autoimmune diseases.

Monoclonal Mouse Anti-Human
CD41, Platelet Glycoprotein IIb

Clone: 5B12
Isotype: IgG1, kappa

☐	F7088	FITC. Purified	100 tests, 1 mL
☐	R7058	RPE. Purified	100 tests, 1 mL

CD41 is a 135 kDa protein which is a selective marker of platelets and platelet precursors. CD41 is expressed to a variable degree in megakaryoblastic/cytic leukemias. It is absent from, or defective on the platelets of patients suffering from Glanzmann's thrombasthenia.

Monoclonal Mouse Anti-Human
CD42b, Platelet Glycoprotein IIb

Clone: AN51
Isotype: IgG2a, kappa

☐	R7014	RPE. Purified	100 tests, 1 mL
---	-------	---------------	-----------------

CD42b is a 145 kDa protein restricted to platelets and megakaryocytes. CD42a, CD42b, CD42c and CD42d form a complex in the platelet plasma membrane which serves as a receptor for von Willebrand factor and thrombin, and mediates adhesion of platelets to subendothelial matrices exposed upon damage to the endothelium. The binding sites for von Willebrand factor and thrombin lies on CD42b.

Monoclonal Mouse Anti-Human
CD43

Clone: DF-T1
Isotype: IgG1, kappa

☐	F7102	FITC. Purified	100 tests, 1 mL
---	-------	----------------	-----------------

Reacts with a heavily glycosylated transmembrane protein, also called leucosialin. CD43 is expressed on virtually all leucocytes.

Monoclonal Mouse Anti-Human
CD45, Leucocyte Common Antigen

Clone: 2D1
Isotype: IgG1, kappa

☐	PR701	PerCP. Purified	100 tests, 1 mL
---	-------	-----------------	-----------------

The antibody is intended for use in the identification of cells expressing CD45. CD45 is one of the most abundant leucocyte cell surface glycoproteins and is expressed exclusively on cells of the hematopoietic system and their progenitors (1). In flow cytometry, anti-CD45, together with a panel of other antibodies, is considered essential for the initial evaluation of chronic lymphoproliferative disorders and acute leukemias (2).

References:

1. Leong AS-Y, Cooper K, Leong FJW-M. Manual of diagnostic antibodies for immunohistology. London: Oxford University Press;1999. p. 95-8.
2. Braylan RC, Orfao A, Borowitz MJ, Davis BH. Optimal number of reagents required to evaluate hematolymphoid neoplasias: results of an international consensus meeting. Cytometry 2001;46:23-7.

Monoclonal Mouse Anti-Human
CD45, Leucocyte Common Antigen

Clone: T29/33
Isotype: IgG1, kappa

☐	C7230	APC. Purified	100 tests, 1 mL
☐	F0861	FITC. Purified	100 tests, 1 mL
RUO	PB986	Pacific Blue. Purified	100 tests, 1 mL
☐	R7087	RPE. Purified	100 tests, 1 mL
☐	C7099	RPE-Cy5. Purified	100 tests, 1 mL

Labels the cell membrane of almost all leucocytes. The expression of CD45 on the surface of mature granulocytes is less than that of lymphocytes.

Monoclonal Mouse Anti-Human
CD45R0

Clone: UCHL1
Isotype: IgG2a, kappa

☐	F0800	FITC. Purified	100 tests, 1 mL
☐	R0843	RPE. Purified	100 tests, 1 mL

Reacts with an epitope unique for CD45R0. The antibody labels most thymocytes, a subpopulation of resting T cells within both CD4 and CD8 subsets and mature, activated T cells.

Monoclonal Mouse Anti-Human
CD45RA

Clone: 4KB5
Isotype: IgG1, kappa

☐	R7086	RPE. Purified	100 tests, 1 mL
---	-------	---------------	-----------------

Reacts with the CD45 isoforms, ABC and AB. The antibody labels most B cells in peripheral blood and tissue sections.

Monoclonal Mouse Anti-Human
CD54, ICAM-1

Clone: 6.5B5
Isotype: IgG1, kappa

RUO	F7143	FITC. Purified	100 tests, 1 mL
-----	-------	----------------	-----------------

Reacts with the cell surface glycoprotein ICAM-1. ICAM-1 (intercellular adhesion molecule-1) is expressed mainly on monocytes and endothelial cells, but expression can be induced or upregulated on many cell types including B and T lymphocytes.

**Monoclonal Mouse Anti-Human
CD56**

Clone: C5.9
Isotype: IgG2b, kappa

☒ R7251 RPE. Purified 100 tests, 1 mL

Anti-CD56, clone C5.9, has a superior performance compared with Anti-CD56, clone MOC-1. The antibody labels natural killer cells and a subset of CD4+ and CD8+ cells in peripheral blood. CD56 is expressed in a number of malignancies, including some myeloid leukemias, myelomas, neuroblastomas and small cell lung cancers.

In flow cytometry R7251 labels CD56+ cells with a higher fluorescence intensity than R7127 and provides a better separation between positive and negative cells.

**Monoclonal Mouse Anti-Human
CD56**

Clone: MOC-1
Isotype: IgG1, kappa

☒ R7127 RPE. Purified 100 tests, 1 mL

Reacts with natural killer cells and a subset of CD4+ and CD8+ T cells in peripheral blood. CD56 is present in a number of tumors, including some myeloid leukemias, myelomas, neuroblastomas and small cell lung cancer (SCLC).

In flow cytometry R7251 labels CD56+ cells with a higher fluorescence intensity than R7127 and provides a better separation between positive and negative cells.

**Monoclonal Mouse Anti-Human
CD57**

Clone: TB01
Isotype: IgM, kappa

☒ F7270 FITC. Purified 100 tests, 1 mL

CD57 is expressed by subsets of NK cells and CD8-positive lymphocytes, and by a small percentage of CD4-positive/CD45R0-positive T lymphocytes in lymph node germinal centres. The number of CD57-positive cells increases in some pathologies characterized by an imbalance of CD4/CD8 lymphocytes. Neuroectodermal cells and striated muscle also express CD57 (1, 2).

References:

1. Leong AS-Y, Cooper K, Leong FJW-M. CD 57. Manual of diagnostic antibodies for immunohistology. London: Oxford University Press; 1999. p. 103-6.
2. Funaro A, Malavasi F. NK5. CD57 Workshop panel report. In: Kishimoto T, Kikutani H, von dem Borne AEG, Goyert SM, Mason DY, Miyasaka M, et al., editors. Leucocyte typing VI. White cell differentiation antigens. Proceedings of the 6th International Workshop and Conference; 1996 Nov 10-14; Kobe, Japan. New York, London: Garland Publishing Inc.; 1997. p. 274-6.

**Monoclonal Mouse Anti-Human
CD61, Platelet Glycoprotein IIIa**

Clone: Y2/51
Isotype: IgG1, kappa

☒ C7280 APC. Purified 100 tests, 1 mL
☒ F0803 FITC. Purified 100 tests, 1 mL

Detects platelets in peripheral blood and bone marrow and reacts also with megakaryocytes and megakaryoblasts. The antibody is of value in the diagnosis of megakaryoblastic leukemia.

**Monoclonal Mouse Anti-Human
CD64, Fc Gamma Receptor I**

Clone: 10.1
Isotype: IgG1, kappa

☒ C7278 APC. Purified 100 tests, 1 mL
☒ R7219 RPE. Purified 100 tests, 1 mL

Reacts with an antigen (FcγRI) constitutively expressed on monocytes, macrophages and blood dendritic cells. The antigen expression can be induced on neutrophils and eosinophils by interferon γ and granulocyte colony-stimulating factor (G-CSF).

**Monoclonal Mouse Anti-Human
CD66abce**

Clone: Kat4c
Isotype: IgG1, kappa

☒ F7112 FITC. Purified 100 tests, 1 mL

CD66 refers to a family of heavily glycosylated glycoproteins whose members are designated CD66a to CD66f. CD66 antibodies often react with two or more members of this family, and antibody Kat4c recognizes three myeloid-associated molecules (CD66a, b, c) and also CD66e (CEA). In consequence, the antibody reacts with myeloid cells at differing stages of maturity (from promyelocytes to granulocytes), and also with a variety of epithelial cells. The antibody is of value in the immunophenotyping of leukemias of myeloid origin.

**Monoclonal Mouse Anti-Human
CD68**

Clone: KP1
Isotype: IgG1, kappa

☒ F7135 FITC. Purified 100 tests, 1 mL

Reacts with an intracellular lysosomal membrane protein expressed by human monocytes, macrophages and myeloid cells. The antibody is of value for the immunophenotyping of neoplasms of myeloid origin.

**Monoclonal Mouse Anti-Human
CD69**

Clone: FN50
Isotype: IgG1, kappa

RUO R7173 RPE. Purified 100 tests, 1 mL

CD69 is not expressed by resting T cells, but is upregulated upon in vitro T-cell activation. CD69 is an early activation antigen expressed prior to CD25 and CD71. Measurements of CD69 expression may be applied to enumeration of activated T cells and studies of the proliferative capacity of T cells.

**Monoclonal Mouse Anti-Human
CD71, Transferrin Receptor**

Clone: Ber-T9
Isotype: IgG1, kappa

☒ F0829 FITC. Purified 100 tests, 1 mL

Reacts with many proliferating cells in both normal and neoplastic tissue.

**Monoclonal Mouse Anti-Human
CD79αcy**

Clone: HM57
Isotype: IgG1, kappa

☒ C7252 APC. Purified 100 tests, 1 mL
☒ R7159 RPE. Purified 100 tests, 1 mL

Synthetic human CD79α peptide has been used as immunogen. Anti-CD79αcy, HM57, labels normal and neoplastic B cells. It reacts with an intracytoplasmic epitope. The antibody is useful for the demonstration of B cells in many mammalian species (1).

Reference:

1. Jones M, Cordell JL, Beyers AD, Tse AG, Mason DY. Detection of T and B cells in many animal species using cross-reactive antipeptide antibodies. J Immunol 1993;150:5429-35.

**Monoclonal Mouse Anti-Human
CD79β**

Clone: SN8
Isotype: IgG1, kappa

☒ F7137 FITC. Purified 100 tests, 1 mL
☒ R7272 RPE. Purified 100 tests, 1 mL

Reacts with an epitope on the extracellular portion of the β-chain of the CD79 antigen. The antibody is specific for B cells, and is of value for the study of leukemias and lymphomas.

**Monoclonal Mouse Anti-Human
CD90**

Clone: 5E10
Isotype: IgG1, kappa

☐ F7274 FITC. Purified* 100 tests, 1 mL

CD90 is identical to the cell surface glycoprotein known as Thy-1. CD90 is expressed on primitive hematopoietic stem cells in normal bone marrow, cord blood and fetal liver cells. The antibody is of value for the study of leukemias of myeloid origin.

**Monoclonal Mouse Anti-Human
CD103, Mucosa Lymphocyte Antigen (MLA)**

Clone: Ber-ACT8
Isotype: IgG1, kappa

☐ F7138 FITC. Purified 100 tests, 1 mL
☐ R7188 RPE. Purified 100 tests, 1 mL

CD103 is the α E integrin subunit of the heterodimeric α E β 7 integrin belonging to a small β 7 integrin subfamily. CD103 is expressed on more than 95% of intraepithelial CD8+ cells and on 40% of mucosa-associated T cells, whereas less than 2% of resting blood lymphocytes are CD103-positive. In several malignant conditions, such as T-cell lymphomas and hairy cell leukemia, the cells express CD103. The antibody is well-suited for the immunophenotyping of leukemias and lymphomas.

Reference:

1. Kruschwitz M, Fritzsche G, Schwarting R, Micklem K, Mason DY, Falini B, et al. Ber-ACT8: monoclonal antibody to the mucosa lymphocyte antigen. *J Clin Pathol* 1991;44:636-45.

**Monoclonal Mouse Anti-Human
CD117, c-kit**

Clone: 104D2
Isotype: IgG1, kappa

☐ C7244 APC. Purified 100 tests, 1 mL
☐ R7145 RPE. Purified 100 tests, 1 mL

CD117, a membrane tyrosine kinase receptor, is encoded by the *KIT* proto-oncogene, also called *c-kit*. CD117 is expressed on 1-4% of normal bone marrow cells. The majority of positive cells (50-70%) co-expresses CD34 and comprises progenitor cells and their precursors of all hematopoietic cell lineages. The antibody is of value in the study of acute myeloid leukemia.

**Monoclonal Mouse Anti-Human
CD138**

Clone: MI15
Isotype: IgG1, kappa

☐ C7256 APC. Purified 100 tests, 1 mL
☐ R7229 RPE. Purified 100 tests, 1 mL

CD138, syndecan-1, is a transmembrane proteoglycan with a main cellular expression in stratified and simple epithelia. Within the hemopoietic system, CD138 is mainly confined to late stages of B-cell differentiation (1). CD138 expression is reduced during malignant transformation of various epithelia, and CD138 is rapidly shed by myeloma cells entering into apoptosis, making CD138 a marker of viable myeloma cells (2).

References:

1. Jourdan M, Ferlin M, Legouffe E, Horvathova M, Liautard J, Rossi JF, et al. The myeloma cell antigen syndecan-1 is lost by apoptotic myeloma cells. *Br J Haematol* 1988;100:637-46.
2. Costes V, Magen V, Legouffe E, Durand L, Baldet P, Rossi J-F, et al. The MI15 monoclonal antibody (anti-syndecan-1) is a reliable marker for quantifying plasma cells in paraffin-embedded bone marrow biopsies. *Hum Pathol* 1999;30:1405-11.

**Monoclonal Mouse Anti-Human
CD235a, Glycophorin A**

Clone: JC159
Isotype: IgG1, kappa

☐ F0870 FITC. Purified 100 tests, 1 mL
☐ R7078 RPE. Purified 100 tests, 1 mL

Reacts with normal erythroid cells at essentially all stages of differentiation from erythroblasts to mature erythrocytes. The antibody reacts with the majority of cases of erythroleukemia.

c-kit

See: CD117, c-kit

**Monoclonal Mouse Anti-Human
Epithelial Antigen**

Clone: Ber-EP4
Isotype: IgG1, kappa

☐ F0860 FITC. Purified 100 tests, 1 mL

This antibody shows a very broad reactivity with the majority of human epithelial tissues. It does rarely label mesothelial cells. The antibody labels an epitope present on the cell surface and in the cytoplasm. In flow cytometry the antibody is useful for the detection and classification of normal and neoplastic cells of epithelial origin in serous effusions, or in single cell suspensions prepared from tissues.

Fc Gamma Receptor I and III

See: CD64 and CD16, respectively

FMC7

See: B Cell

Glycophorin A

See: CD235a, Glycophorin A

**Monoclonal Mouse Anti-Human
HLA-ABC Antigen**

Clone: W6/32
Isotype: IgG2a, kappa

☐ R7000 RPE. Purified 100 tests, 1 mL

Is directed against a monomorphic epitope on the 45 kDa polypeptide products of the *HLA-A, B* and *C* loci. These antigens belong to class I of the mammalian major histocompatibility complex (MHC), in humans known as human leucocyte-associated antigens (HLA). The antibody labels all nucleated cells in peripheral blood or tonsil cell preparations, including polymorphs, monocytes, lymphocytes and eosinophils. Erythrocytes are not labeled. The antibody is relevant for the study of HLA class I expression in cells from solid tumors. The reagent is not intended for use in tissue typing.

**Monoclonal Mouse Anti-Human
HLA-DP, DQ, DR Antigen**

Clone: CR3/43
Isotype: IgG1, kappa

☐ F0817 FITC. Purified 100 tests, 1 mL

Labels principally B cells, most monocytes and activated T cells, but is unreactive with normal T cells and polymorphs. The antibody is useful for the characterization of leukemias and lymphomas, and for the study of activated T cells. The reagent is not intended for use in tissue typing.

**Monoclonal Mouse Anti-Human
HLA-DR Antigen**

Clone: AB3
Isotype: IgG2a, kappa

☒	F7266	FITC. Purified	100 tests, 1 mL
☒	R7267	RPE. Purified	100 tests, 1 mL

HLA-DR antigen is constitutively expressed on antigen-presenting cells, such as B lymphocytes, monocytes and dendritic cells, but it can also be detected on activated T lymphocytes and activated granulocytes. Antibodies to HLA-DR antigen are together with a panel of other antibodies considered essential for the initial evaluation of acute leukemia, chronic T and B-cell leukemia, and myeloid leukemia. The reagent is not intended for use in tissue typing.

ICAM-1

See: CD54, ICAM-1

**Polyclonal Rabbit Anti-Human
IgA, Specific for Alpha-Chains**

☒	F0188	FITC. Affinity-isolated F(ab') ₂	100 tests, 1 mL
---	-------	---	-----------------

The antigen used for immunization is serum IgA. F0188 is intended for use in flow cytometry for the detection of surface IgA on normal and neoplastic B cells.

**Polyclonal Rabbit Anti-Human
IgD, Specific for Delta-Chains**

☒	F0189	FITC. Affinity-isolated F(ab') ₂	100 tests, 1 mL
☒	R5112	RPE. Affinity-isolated F(ab') ₂	100 tests, 1 mL

The antigen used for immunization is serum IgD. F0189 and R5112 are intended for use in flow cytometry for the detection of surface IgD on normal and neoplastic B cells.

**Polyclonal Rabbit Anti-Human
IgG, Specific for Gamma-Chains**

☒	F0185	FITC. Affinity-isolated F(ab') ₂	100 tests, 1 mL
---	-------	---	-----------------

The antigen used for immunization is serum IgG. F0185 is intended for use in flow cytometry for the detection of surface IgG on normal and neoplastic B cells.

**Polyclonal Rabbit Anti-Human
IgM, Specific for Mu-Chains**

☒	F0058	FITC. Affinity-isolated F(ab') ₂	100 tests, 1 mL
☒	R5111	RPE. Affinity-isolated F(ab') ₂	100 tests, 1 mL

The antigen used for immunization is serum IgM. F0058 and R5111 are intended for use in flow cytometry for the detection of surface IgM on normal and neoplastic B cells.

Interleukin-2 Receptor

See: CD25, Interleukin-2 Receptor

**Polyclonal Rabbit Anti-Human
Kappa Light Chains**

☒	C0222	APC. Affinity-isolated F(ab') ₂	100 tests, 1 mL
☒	F0434	FITC. Affinity-isolated F(ab') ₂	100 tests, 1 mL
☒	R0436	RPE. Affinity-isolated F(ab') ₂	100 tests, 1 mL

These reagents have been produced in a manner that ensures a particularly wide specificity for kappa-chains. Most B cells, with the exception of pre-B progenitors, pre-B cells and mature plasma cells, express immunoglobulin on their surface. Each cell expresses only one light chain type. In normal peripheral blood and lymph nodes there is a mixture of kappa+ and lambda+ cells with two-thirds of the cells expressing kappa and one-third expressing lambda (1). The reagents are of value for the demonstration of the monoclonal nature (light chain restriction) of lymphoid neoplasms.

Reference:

- Johnson A, Olofsson T. Flow cytometric clonal excess analysis of peripheral blood, routine handling, and pitfalls in interpretation. *Cytometry* 1993;14:188-95.

Ki-1 Antigen

See: CD30

**Monoclonal Mouse Anti-Human
Ki-67 Antigen**

Clone: Ki-67
Isotype: IgG1, kappa

☒	F0788	FITC. Purified	100 tests, 1 mL
---	-------	----------------	-----------------

Reacts with a nuclear antigen expressed by all human proliferating cells. The antibody recognizes cells at all stages of the cell cycle (late G₁, S, M and G₂ phases), but not cells in G₀ phase. The reaction with this antibody serves as an indicator of the growth fraction; that is the number of cells undergoing active division.

**Monoclonal Mouse Anti-Human
Ki-67 Antigen**

Clone: MIB-1
Isotype: IgG1, kappa

RUO	F7268	FITC. Purified	100 tests, 1 mL
-----	-------	----------------	-----------------

The MIB-1 antibody has now been established as the reference monoclonal mouse antibody for the demonstration of the Ki-67 antigen, a nuclear antigen expressed by all human proliferating cells. The antibody recognizes proliferating cells at all stages of the cell cycle (late G₁, S, M and G₂ phases), but not cells in G₀ phase.

References:

- Scholzen T, Gerdes J. The Ki-67 protein: from the known and the unknown. *J Cell Physiol* 2000;182:311-22.
- Endl E, Hollmann C, Gerdes J. Antibodies against the Ki-67 protein: assessment of the growth fraction and tools for cell cycle analysis. In: Darzynkiewicz Z, Crissmann HA, Robinson JP, editors. *Methods in cell biology: Cytometry*. 3rd ed. San Diego: Academic Press; 2001. Part A. Volume 63. p. 399-418.

**Polyclonal Rabbit Anti-Human
Lambda Light Chains**

☒	F0435	FITC. Affinity-isolated F(ab') ₂	100 tests, 1 mL
☒	R0437	RPE. Affinity-isolated F(ab') ₂	100 tests, 1 mL

The antigen used for immunization is a pool of human lambda Bence Jones proteins. F0435 and R0437 are intended for use in flow cytometry for the detection of lambda light chains of surface immunoglobulin on normal and neoplastic B cells. The antibody is of value for the demonstration of the monoclonal nature (light chain restriction) of lymphoid neoplasms.

Leucocyte Common Antigen

See: CD45

**Polyclonal Rabbit Anti-Human
Lysozyme EC 3.2.1.17**

☒	F0372	FITC. Ig fraction	100 tests, 1 mL
---	-------	-------------------	-----------------

Reacts with the primary and secondary granules of myeloid cells. In flow cytometric immunophenotyping of leukemias, lysozyme is a useful marker for the subclassification of acute myeloid leukemia.

Mucosa-Lymphocyte Antigen (MLA)

See: CD103, Mucosa-Lymphocyte Antigen (MLA)

**Monoclonal Mouse Anti-Human
Myeloperoxidase**

Clone: MPO-7
Isotype: IgG1, kappa

☒	C7246	APC. Purified	100 tests, 1 mL
☒	F0714	FITC. Purified	100 tests, 1 mL
☒	PR704	PerCP-Cy5.5. Purified	100 tests, 0.5 mL
☒	R7209	RPE. Purified	100 tests, 1 mL

Anti-Myeloperoxidase, MPO-7, reacts with granula in the cytoplasm of neutrophil granulocytes and with monocytes. It is valuable for phenotyping acute leukemias since it detects myeloperoxidase in the great majority of cases of acute myeloid leukemia.

Monoclonal Mouse Anti-Human

Plasma Cell

Clone: VS38c

Isotype: IgG1, kappa

☐ F7149 FITC. Purified 100 tests, 1 mL

Recognizes an intracellular protein of 63 kDa identical with the rough endoplasmic reticulum-associated protein p63. The antibody labels plasma cells strongly, but frequently also labels melanocytic cells, particularly melanoma cells, and a number of epithelial cells, e.g. in mucous glands and tonsils, and secretory epithelia in breast, thyroid and pancreas, both benign and malignant.

Platelet Glycoprotein Ib, IIb and IIIb

See: CD42b, CD41 and CD61, respectively

Protein 150,95

See: CD11c, Protein 150,95

Monoclonal Mouse Anti-Human

Terminal Deoxynucleotidyl Transferase

Clone: HT-6

Isotype: IgG1, kappa

☐ F7139 FITC. Purified 50 tests, 0.5 mL

Reacts with the nuclei of normal T and B-lymphocyte precursors and their neoplastic equivalents (e.g. T cell and pre-B cell acute lymphoblastic leukemias and lymphomas).

Dual-Color Reagents

Our MultiMix™ Dual-Color Reagents are based on the combination of two or more antibodies labeled with fluorescein isothiocyanate (FITC) and R-phycoerythrin (RPE), respectively. This combination is particularly effective

as both fluorochromes can be excited at 488 nm. The fluorescence emission for FITC is in the green region around 530 nm while the RPE emission is in the orange region above 570 nm.

Monoclonal Mouse Anti-Human

CD2/FITC + CD19/RPE

Clones: MT910 and HD37
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR894 FITC and RPE. Purified 50 tests, 0.5 mL
FR894 allows simultaneous detection and enumeration of CD2+ cells and B cells.

Monoclonal Mouse Anti-Human

CD3/FITC + CD4/RPE

Clones: UCHT1 and MT310
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR875 FITC and RPE. Purified 50 tests, 0.5 mL
FR875 allows simultaneous detection and enumeration of T cells and the helper/inducer T-cell subset.

Monoclonal Mouse Anti-Human

CD3/FITC + CD8/RPE

Clones: UCHT1 and DK25
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR881 FITC and RPE. Purified 50 tests, 0.5 mL
FR881 allows simultaneous detection and enumeration of T cells and the suppressor/cytotoxic T-cell subset.

Monoclonal Mouse Anti-Human

CD3/FITC + CD19/RPE

Clones: UCHT1 and HD37
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR866 FITC and RPE. Purified 50 tests, 0.5 mL
FR866 allows simultaneous detection and enumeration of T cells and B cells.

Monoclonal Mouse Anti-Human

CD4/FITC + CD8/RPE

Clones: MT310 and DK25
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR868 FITC and RPE. Purified 50 tests, 0.5 mL
FR868 allows simultaneous detection and enumeration of helper/inducer T cell and suppressor/cytotoxic T-cell subsets.

Monoclonal Mouse Anti-Human

CD5/FITC + CD19/RPE

Clones: DK23 and HD37
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR882 FITC and RPE. Purified 50 tests, 0.5 mL
FR882 allows simultaneous detection and enumeration of CD5+ cells and B cells.

Monoclonal Mouse Anti-Human

CD5/FITC + CD20/RPE

Clones: DK23 and B-Ly1
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR729 FITC and RPE. Purified 50 tests, 0.5 mL
FR729 allows simultaneous detection and enumeration of CD5+ T cells and CD20+ B cells.

Monoclonal Mouse Anti-Human

CD10/FITC + CD19/RPE

Clones: SS2/36 and HD37
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR883 FITC and RPE. Purified 50 tests, 0.5 mL
FR883 allows simultaneous detection and enumeration of CD10+ cells and B cells.

Monoclonal Mouse Anti-Human

CD45/FITC + CD14/RPE

Clones: T29/33 and TÜK4
Isotypes: IgG1, kappa and IgG2a, kappa

☒ FR700 FITC and RPE. Purified 50 tests, 0.5 mL
FR700 allows simultaneous subdivision of leucocytes into lymphocytes, monocytes and granulocytes.

Monoclonal Mouse Anti-Human

HLA-DP, DQ, DR Antigen/FITC + CD3/RPE

Clones: CR3/43 and UCHT1
Isotypes: IgG1, kappa and IgG1, kappa

☒ FR867 FITC and RPE. Purified 50 tests, 0.5 mL
FR867 allows simultaneous detection and enumeration of MHC class II antigen-positive cells and T cells. The reagent is not intended for use in tissue typing.

Polyclonal Rabbit Anti-Human

Kappa Light Chains/FITC + Monoclonal Mouse Anti-Human CD19/RPE

Clone: HD37
Isotype: IgG1, kappa

☒ FR048 FITC. Affinity-isolated F(ab')₂; RPE. Purified 50 tests, 0.5 mL
FR048 allows the detection and enumeration of kappa light chains on B cells.

Polyclonal Rabbit Anti-Human

Kappa Light Chains/FITC + Lambda Light Chains/RPE

☒ FR481 FITC and RPE. Affinity-isolated F(ab')₂ 50 tests, 0.5 mL
FR481 allows simultaneous detection and enumeration of kappa and lambda light chain bearing cells.

Polyclonal Rabbit Anti-Human

Lambda Light Chains/FITC + Monoclonal Mouse Anti-Human CD19/RPE

Clone: HD37
Isotype: IgG1, kappa

☒ FR044 FITC. Affinity-isolated F(ab')₂; RPE. Purified 50 tests, 0.5 mL
FR044 allows the detection and enumeration of lambda light chains on B cells.

MultiMix™

Triple-Color Reagents
Fluorochrome Combinations
FITC/RPE/APC and
FITC/RPE/RPE-Cy5



- Stable Reagents
- Easy Instrument Compensation
- Reliable Results
- Ready-to-Use
- Cost-Effective and Time-Saving
- Technical Support

Triple-Color Reagents

Our MultiMix™ Triple-Color Reagents are based on the combination of three antibodies labeled with fluorescein isothiocyanate (FITC), R-phycoerythrin (RPE) and allophycocyanin (APC) or FITC, RPE and RPE-Cy5. The Triple-Color Reagents are designed for flow cytometers equipped with a 488 nm (blue argon laser) light source for excitation of FITC, RPE

and RPE-Cy5, and a 633/635 nm (red) light source for excitation of APC.

CD45/PerCP, Code PR701 is available as drop-in reagent for FITC/RPE/APC MultiMix™ products.

FITC/RPE/APC Reagent Line

The FITC/RPE/APC Reagent Line is based on the combination of three antibodies labeled with fluorescein isothiocyanate (FITC), R-phycoerythrin (RPE) and allophycocyanin (APC).

Monoclonal Mouse Anti-Human
B Cell (FMC7)/FITC +
CD23/RPE +
CD19/APC

Clones: FMC7, MHM6 and HD37
 Isotypes: IgM, kappa, IgG1, kappa and IgG1, kappa

☒ TC683 FITC, RPE and APC. Purified 50 tests, 1 mL
 TC683 allows simultaneous detection and enumeration of FMC7-positive, CD23-positive and CD19-positive cells. The FMC7 antigen is expressed by B cells in normal peripheral blood. The antigen is also expressed by malignant cells in chronic lymphoproliferative disorders, including B-cell prolymphocytic leukemia, hairy cell leukemia, mantle cell lymphoma, follicle centre lymphoma, marginal zone lymphoma, mucosa-associated lymphoid tissue lymphoma, diffuse large cell lymphoma, Burkitt's lymphoma and Waldenström macroglobulinemia. CD23 is identical to the low affinity IgE receptor (FcεRII) found on B cells. CD23 is primarily expressed by B cells and monocytes and is also strongly expressed by EBV-transformed B lymphoblasts. In addition, CD23 is present on a large variety of other cells, such as T cells, eosinophils, platelets, Langerhans' cells and a subset of thymic epithelial cells. CD19 is a pan-B-cell antigen that is expressed by B lymphocytes at all stages of maturation excepting differentiated plasma cells. Antibodies to CD19 are considered essential for the initial evaluation of acute and chronic lymphoproliferative disorders.

Monoclonal Mouse Anti-Human
CD2/FITC +
CD7/RPE +
CD3/APC

Clones: MT910, CBC.37 and UCHT1
 Isotypes: IgG1, kappa, IgG2b, kappa and IgG1, kappa

☒ TC677 FITC, RPE and APC. Purified 50 tests, 1 mL
 TC677 allows simultaneous detection and enumeration of T cell subpopulations. CD2 is a useful marker in the assessment of lymphoid malignancies as it is expressed in the majority of precursor and postthymic lymphomas and leukemias. In some neoplastic T-cell populations, e.g. in peripheral T-cell lymphomas, CD2 may be aberrantly deleted. CD7 is expressed on mature T cells and anti-CD7 is considered essential for the initial evaluation of T-cell acute lymphoblastic leukemias (T-ALL) and T-cell chronic leukemias together with a panel of other antibodies. CD3 is a pan-T-cell restricted antigen and is a valuable marker for normal and neoplastic T cells.

Monoclonal Mouse Anti-Human
CD2/FITC +
CD34/RPE +
CD5/APC

Clones: MT910, BIRMA-K3 and DK23
 Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

☒ TC666 FITC, RPE and APC. Purified 50 tests, 1 mL
 TC666 allows simultaneous detection and enumeration of CD2+ T cells, CD34+ cells and CD5+ B cells.
 Recommended control reagent is Code X0978.

Monoclonal Mouse Anti-Human

**CD3/FITC +
CD19/RPE +
CD45/APC**

Clones: UCHT1, HD37 and 2D1

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

€ TC690 FITC, RPE and APC. Purified 50 tests, 1 mL

TC690 allows simultaneous detection and enumeration of CD3-positive T cells and CD19-positive B cells in combination with CD45-positive leucocytes. CD3 is a pan-T-cell restricted antigen, which is a valuable marker for normal and neoplastic T cells. CD19 is the broadest lineage-specific surface marker for B cells and it is present on the surface of virtually all B lymphocytes, including early B progenitor cells. CD19 expression is maintained in B-lineage cells that have undergone neoplastic transformation. Antibodies to CD19 are considered essential for the initial evaluation of acute and chronic lymphoproliferative disorders. CD45 is one of the most abundant leucocyte cell surface glycoproteins and is expressed exclusively on cells of the hematopoietic system and their progenitors. Anti-CD45, together with a panel of other antibodies, is considered essential for the initial evaluation of chronic lymphoproliferative disorders and acute leukemias.

Recommended control reagent is Code X0978.

Monoclonal Mouse Anti-Human

**CD5/FITC +
CD10/RPE +
CD19/APC**

Clones: DK23, SS2/36 and HD37

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

€ TC664 FITC, RPE and APC. Purified 50 tests, 1 mL

TC664 allows simultaneous detection and enumeration of CD5+ T cells, CD10+ cells and CD19+ B cells.

Recommended control reagent is Code X0978.

Monoclonal Mouse Anti-Human

**CD8/FITC +
CD4/RPE +
CD3/APC**

Clones: DK25, MT310 and UCHT1

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

€ TC660 FITC, RPE and APC. Purified 50 tests, 1 mL

TC660 is intended for identification of the relative percentages of CD4 and CD8-positive T cells.

Recommended control reagent is Code X0978.

Monoclonal Mouse Anti-Human

**CD13/FITC +
HLA-DR Antigen/RPE +
CD117/APC**

Clones: WM-47, AB3 and 104D2

Isotypes: IgG1, kappa, IgG2a, kappa and IgG1, kappa

€ TC685 FITC, RPE and APC. Purified 50 tests, 1 mL

TC685 allows simultaneous detection and enumeration of cells expressing CD13, HLA-DR antigen and CD117. CD13 is expressed on the surface of committed granulocyte-monocyte progenitors (CFU-GM) and by cells of the granulocyte and monocyte lineages at all stages of differentiation, as well as by neoplastic counterparts of these cells. The HLA-DR antigen is constitutively expressed on antigen-presenting cells, such as B lymphocytes, monocytes and dendritic cells, but it can also be detected on activated T lymphocytes and activated granulocytes. The antigen has been found expressed in cases of different types of acute lymphoblastic leukemias, acute myeloid leukemias (AML) except AML-M3, chronic T-cell leukemias, chronic myeloid leukemias (CML) and B and T-cell non-Hodgkin's leukemias. CD117 is a marker for tissue mast cells, hematopoietic stem cells, and progenitor cells in normal human bone marrow. The majority of CD117+ marrow cells co-express CD34 and comprise progenitor cells and their precursors of all hematopoietic lineages. Antibodies to CD117, together with a panel of other antibodies, are useful for identification of AML, and for classification of leukemias.

TC685 is not intended for tissue typing.

Monoclonal Mouse Anti-Human

**CD16/FITC +
CD56/RPE +
CD3/APC**

Clones: DJ130c, C5.9 and UCHT1

Isotypes: IgG1, kappa, IgG2b, kappa and IgG1, kappa

€ TC661 FITC, RPE and APC. Purified 50 tests, 1 mL

TC661 allows simultaneous detection and enumeration of NK cells and T cells.

Monoclonal Mouse Anti-Human

**CD19/FITC +
CD34/RPE +
CD22/APC**

Clones: HD37, BIRMA-K3 and 4KB128

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

€ TC689 FITC, RPE and APC. Purified 50 tests, 1 mL

TC689 allows simultaneous detection and enumeration of cells expressing CD19, CD34 and CD22. CD19 is the broadest lineage-specific surface marker for B cells and it is present on the surface of virtually all B lymphocytes, including early B progenitor cells. CD19 expression is maintained in B-lineage cells that have undergone neoplastic transformation. Antibodies to CD19 are considered essential for the initial evaluation of acute and chronic lymphoproliferative disorders. CD34 is present on hematopoietic progenitor cells in bone marrow and blood, whereas CD34 is normally not detected on peripheral blood leucocytes and platelets. Approximately 60% of acute B-lymphoid leukemias, 40% of acute myeloid leukemias (AML), and 1-5% of acute T-lymphoid leukemias express CD34. Chronic lymphoid leukemias, lymphomas and multiple myelomas have been found to be uniformly CD34 negative. CD22 is expressed on normal and neoplastic B lymphocytes in bone marrow and blood. CD22 is present in neoplasms of B-cell origin, including primitive lymphomas that lack monoclonal surface immunoglobulins, and most cases of common acute lymphoblastic leukemia.

Recommended control reagent is Code X0978.

Monoclonal Mouse Anti-Human

**CD19/FITC +
Polyclonal Rabbit Anti-Human
Lambda Light Chains/RPE +
Kappa Light Chains/APC**

Clone: HD37

Isotype: IgG1, kappa

€ TC669 FITC. Purified; RPE and APC. Affinity-isolated F(ab')₂ 50 tests, 1 mL

TC669 allows simultaneous detection and enumeration of kappa and lambda light chain bearing B cells.

Recommended control reagent is Code X0978.

Monoclonal Mouse Anti-Human

**CD20/FITC +
CD5/RPE +
CD19/APC**

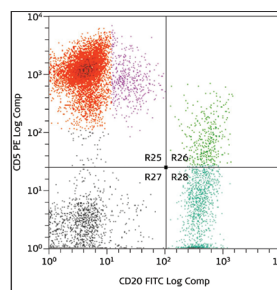
Clones: B-Ly1, DK23 and HD37

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

€ TC663 FITC, RPE and APC. Purified 50 tests, 1 mL

TC663 allows simultaneous detection and enumeration of CD19+ and/or CD20+ B cells and CD5+ T cells.

Recommended control reagent is Code X0978.



Normal peripheral blood stained with TC663, Monoclonal Mouse Anti-Human CD20/FITC + CD5/RPE + CD19/APC. The sample is gated on lymphocytes on an FSC/SSC dot plot. The orange population is the CD5+ T cells and the magenta population shows the CD5+CD20^{dim} T cells.

Monoclonal Mouse Anti-Human

CD33/FITC + CD34/RPE + CD117/APC

Clones: WM-54, BIRMA-K3 and 104D2

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

☐ TC686 FITC, RPE and APC. Purified 50 tests, 1 mL

TC686 allows simultaneous detection and enumeration of CD33, CD34 and CD117-positive cells. CD33 is expressed by subsets of myeloid progenitors, monocytes, granulocytic precursors, and at low levels by neutrophils. CD33 has been found on the cell surface of leukemic blasts from the vast majority of cases of acute myeloid leukemia (AML). CD34 expression is confined to lymphohematopoietic progenitor cells, with the exception of capillary endothelial cells. CD34 appears to be expressed at the highest levels on the earliest progenitors, and to decrease progressively with maturation. Approximately 60% of acute B-lymphoid leukemias, 40% of AML and 1-5% of acute T-lymphoid leukemias express CD34. CD117 is a marker for hematopoietic stem and progenitor cells, and tissue mast cells. The majority (50-70%) of CD117-positive cells co-express CD34 and comprise progenitor cells and their precursors of all hematopoietic lineages. CD117 is frequently found to be expressed on blasts of patients with AML, but is absent from ALL blasts. Recommended control reagent is Code X0978.

Monoclonal Mouse Anti-Human

CD38/FITC + CD56/RPE + CD19/APC

Clones: AT13/5, C5.9 and HD37

Isotypes: IgG1, kappa, IgG2b, kappa and IgG1, kappa

☐ TC674 FITC, RPE and APC. Purified 50 tests, 1 mL

TC674 allows simultaneous detection and enumeration of plasma cells, NK cells and B cells. CD38 is a plasma cell marker, and anti-CD38 is useful for the identification of poorly differentiated plasma cells, which may mimic other blastic lymphoid cells. Additionally anti-CD38 is valuable for the immunophenotyping of acute leukemias. CD56 is the prototypic marker of human NK cells, and it is also expressed by a subset of CD4+ and CD8+ T cells in peripheral blood. CD19 is the broadest lineage-specific surface marker for B cells, and its expression is maintained in B-lineage cells that have undergone neoplastic transformation. Anti-CD19 is considered essential for the initial evaluation of acute and chronic lymphoproliferative disorders.

Monoclonal Mouse Anti-Human

CD38/FITC + CD56/RPE + CD45/APC

Clones: AT13/5, C5.9 and 2D1

Isotypes: IgG1, kappa, IgG2b, kappa and IgG1, kappa

☐ TC671 FITC, RPE and APC. Purified 50 tests, 1 mL

TC671 allows simultaneous detection and enumeration of CD38 and CD56-positive cells in combination with CD45-positive leucocytes. CD38 is a useful marker in the immunophenotyping of acute leukemias. Additionally, antibodies to CD38 are valuable for the identification of plasma cells, as poorly differentiated plasma cells may mimic other blastic lymphoid cells. CD56 is the prototypic marker of natural killer (NK) cells and it is also present on a subset of CD4+ and CD8+ T cells in peripheral blood. CD45 is one of the most abundant leucocyte cell surface glycoproteins and is expressed exclusively on cells of the hematopoietic system and their progenitors. Anti-CD45, together with a panel of other antibodies, is considered essential for the initial evaluation of chronic lymphoproliferative disorders and acute leukemias.

Monoclonal Mouse Anti-Human

CD41/FITC + CD34/RPE + CD61/APC

Clones: 5B12, BIRMA-K3 and Y2/51

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

☐ TC687 FITC, RPE and APC. Purified 50 tests, 1 mL

TC687 allows simultaneous detection and enumeration of CD41 and CD61-positive platelets and CD34-positive progenitor cells. CD41 and CD61 are selective markers of platelets and platelet precursors, and they may be of value for immunophenotyping of megakaryoblastic leukemias. The CD41/CD61 complex appears early in megakaryocyte maturation. The activated CD41/CD61 complex is a receptor for von Willebrand factor, soluble fibrinogen and fibronectin and plays a central role in platelet activation and aggregation. CD34 is present on hematopoietic progenitor cells in bone marrow and blood, whereas CD34 is normally not detected on peripheral blood leucocytes and platelets. Approximately 60% of acute B-lymphoid leukemias, 40% of acute myeloid leukemias (AML), and 1-5% of acute T-lymphoid leukemias express CD34. Chronic lymphoid leukemias, lymphomas and multiple myelomas have been found to be uniformly CD34-negative. Recommended control reagent is Code X0978.

Monoclonal Mouse Anti-Human

CD71/FITC + CD235a/RPE + CD45/APC

Clones: Ber-T9, JC159 and 2D1

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

☐ TC675 FITC, RPE and APC. Purified 50 tests, 1 mL

TC675 allows simultaneous detection and enumeration of cells expressing CD71, CD235a and CD45. In normal tissues, high expression of CD71 (transferrin receptor) is seen in erythroid precursors and hemoglobin-synthesizing reticulocytes but expression is lost in mature erythrocytes. Activated, but not resting, lymphocytes express CD71. Anti-CD71, together with a panel of other antibodies, is considered relevant for the initial evaluation of acute leukemias of the erythroid lineage. CD235a (glycophorin A) is expressed on erythroid cells beginning on morphologically recognizable erythroid precursors, just after the CFU-E stage, to the mature erythrocyte. The majority of cases of erythroleukemia express CD235a on neoplastic erythroblasts, whereas acute myeloid leukemia and acute lymphoblastic leukemia only very rarely express CD235a. CD45 is one of the most abundant leucocyte cell surface glycoproteins and is expressed exclusively on cells of the hematopoietic system and their progenitors. Anti-CD45, together with a panel of other antibodies, is considered essential for the initial evaluation of chronic lymphoproliferative disorders and acute leukemias.

Recommended control reagent is Code X0978.

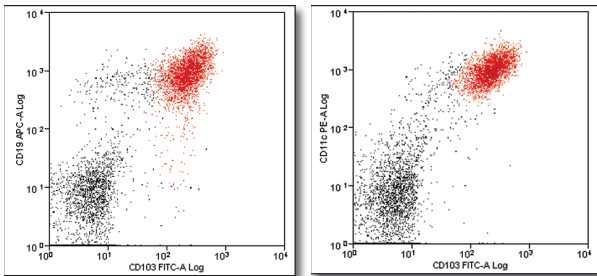
**Monoclonal Mouse Anti-Human
CD103/FITC +
CD11c/RPE +
CD19/APC**

Clones: Ber-ACT8, KB90 and HD37
Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

€ TC665 FITC, RPE and APC. Purified 50 tests, 1 mL

TC665 allows simultaneous detection and enumeration of cells expressing CD103, CD11c and CD19. CD103 is expressed on mucosal T cells, on activated CD8+ T cells and on hairy cell leukemia cells. In several malignant conditions, such as T-cell lymphomas and hairy cell leukemias, the cells express CD103. Antibodies to CD103 are valuable for the evaluation of chronic B-cell leukemias and T-cell lymphomas. CD11c is expressed on a variety of cells including granulocytes, monocytes, macrophages, natural killer (NK) cells, dendritic cells and neoplastic cells. Antibodies to CD11c are useful for the initial evaluation of B-cell lymphoproliferative disorders, e.g. hairy cell leukemia and B-cell chronic lymphocytic leukemia. CD19 is the broadest lineage-specific surface marker for B cells and it is present on the surface of virtually all B lymphocytes, including early B progenitor cells. CD19 expression is maintained in B-lineage cells that have undergone neoplastic transformation. Antibodies to CD19 are considered essential for the initial evaluation of acute and chronic lymphoproliferative disorders.

Recommended control reagent is Code X0978.



Peripheral blood from a case of hairy cell leukemia stained with TC665. Hairy cell leukemia cells (CD11c+CD19+CD103+) are shown in red. Courtesy of professor Peter Hokland.

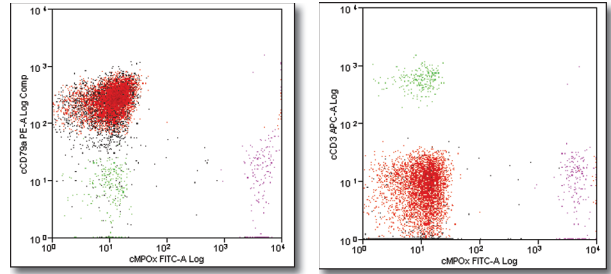
**Monoclonal Mouse Anti-Human
MPO/FITC +
CD79 α cy/RPE +
CD3/APC**

Clones: MPO-7, HM57 and UCHT1
Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

€ TC667 FITC, RPE and APC. Purified 50 tests, 1 mL

TC667 allows simultaneous detection and enumeration of granulocytes, B cells and T cells.

Recommended control reagent is Code X0978.



Bone marrow from a case of B-cell acute lymphoblastic leukemia (B-ALL) stained with TC667. B-ALL cells (CD79 α cy+) are shown in red. Normal myeloid cells (MPO+) are shown in magenta. Normal T cells (CD3+) are shown in green. Courtesy of professor Peter Hokland.



Triple-Color Reagents (continued)

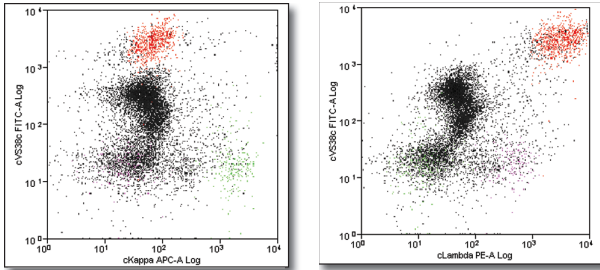
**Monoclonal Mouse Anti-Human
Plasma Cell/FITC +
Polyclonal Rabbit Anti-Human
Lambda Light Chains/RPE +
Kappa Light Chains/APC**

Clone: VS38c

Isotype: IgG1, kappa

☒ TC670 FITC, RPE and APC. Purified; Affinity-isolated F(ab')₂ 50 tests, 1 mL

TC670 allows simultaneous intracellular detection and enumeration of kappa and lambda light chains in plasma cells.
Recommended control reagent is Code X0979.



Bone marrow from a case of multiple myeloma stained with TC670. The multiple myeloma cells (VS38c+lambda+) are shown in red. Normal B cells (kappa+ or lambda+) are shown in green and magenta, respectively. Courtesy of professor Peter Hokland.

**Monoclonal Mouse Anti-Human
TdT/FITC +
CD22/RPE +
CD3/APC**

Clones: HT-6, 4KB128 and UCHT1

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

☒ TC668 FITC, RPE and APC. Purified 50 tests, 1 mL

TC668 allows simultaneous detection and enumeration of T and B-lymphocyte precursor cells, B cells and T cells.
Recommended control reagent is Code X0978.

FITC/RPE/RPE-Cy5 Reagent Line

The FITC/RPE/RPE-Cy5 Reagent Line is based on the combination of three antibodies labeled with fluorescein isothiocyanate (FITC), R-phycoerythrin

(RPE) and R-phycoerythrin-Cy5 (RPE-Cy5). The fluorochrome RPE-Cy5 consists of the cyanine dye, Cy5, covalently coupled to RPE.

**Monoclonal Mouse Anti-Human
CD8/FITC +
CD4/RPE +
CD3/RPE-Cy5**

Clones: DK25, MT310 and UCHT1

Isotypes: IgG1, kappa, IgG1, kappa and IgG1, kappa

☒ TC641 FITC, RPE and RPE-Cy5. Purified 50 tests, 0.5 mL

TC641 allows simultaneous detection and enumeration of T cells, and the suppressor/cytotoxic and helper/inducer T-cell subsets.
Recommended control reagent is Code X0956.

**Polyclonal Rabbit Anti-Human
Kappa Light Chains/FITC +
Lambda Light Chains/RPE +
Monoclonal Mouse Anti-Human
CD19/RPE-Cy5**

Clone: HD37

Isotype: IgG1, kappa

☒ TC051 FITC and RPE. Affinity-isolated F(ab')₂; RPE-Cy5. Purified 50 tests, 0.5 mL

TC051 allows simultaneous detection and enumeration of kappa and lambda bearing B cells.
Recommended control reagent is Code X0957.

Isotype and Control Reagents

Isotype and fluorochrome-matched control reagents are important tools for assessing the specificity of immunological stainings.

Our mouse antibody controls are based on monoclonal mouse antibodies of different isotypes, and unless indicated otherwise, directed towards *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor

inducible in mammalian tissues. The controls are provided as conjugated, purified antibodies.

Our rabbit antibody controls have been prepared from the serum of non-immunized rabbits. The controls have been processed in the same way as our conjugated, solid-phase absorbed F(ab')₂ fragment rabbit antibodies.

Single-Color Mouse Isotype Reagents

Mouse IgG1

☐	X0968	APC. Purified	1 mL
☐	X0927	FITC. Purified	1 mL
☐	X0928	RPE. Purified	1 mL
☐	X0955	RPE-Cy5. Purified	1 mL

Flow cytometry control reagents for single-color monoclonal mouse antibodies of isotype IgG1.

Mouse IgG2a

☐	X0933	FITC. Purified	1 mL
☐	X0950	RPE. Purified	1 mL

Flow cytometry control reagents for single-color monoclonal mouse antibodies of isotype IgG2a.

Mouse IgG2b

☐	X0941	FITC. Purified	1 mL
---	-------	----------------	------

Flow cytometry control reagent for monoclonal mouse FITC-conjugated antibodies of isotype IgG2b.

Mouse IgM

☐	X0934	FITC. Purified	1 mL
---	-------	----------------	------

Flow cytometry control reagent for monoclonal mouse FITC-conjugated antibodies of isotype IgM.

Single-Color Rabbit Ig Reagents

Rabbit F(ab')₂

☐	X0998	APC. Solid-phase absorbed F(ab') ₂	1 mL
☐	X0929	FITC. Solid-phase absorbed F(ab') ₂	1 mL
☐	X0930	RPE. Solid-phase absorbed F(ab') ₂	1 mL

Flow cytometry control reagents for single-color solid-phase absorbed APC, FITC and RPE-conjugated rabbit antibodies provided as F(ab')₂ fragments.

Dual-Color Mouse Isotype/Rabbit Ig Reagents

Mouse IgG1/FITC + Mouse IgG1/RPE

☐	X0932	FITC and RPE. Purified	0.5 mL
---	-------	------------------------	--------

Flow cytometry control reagent for MultiMix™ Dual-Color Reagents of the composition: monoclonal mouse antibody isotype IgG1/FITC, and monoclonal mouse antibody isotype IgG1/RPE.

Mouse IgG1/FITC + Mouse IgG2a/RPE

☐	X0949	FITC and RPE. Purified	0.5 mL
---	-------	------------------------	--------

Flow cytometry control reagent for MultiMix™ Dual-Color Reagents of the composition: monoclonal mouse antibody isotype IgG1/FITC, and monoclonal mouse antibody isotype IgG2a/RPE.

Rabbit F(ab')₂/FITC + Mouse IgG1/RPE

☐	X0952	FITC. Solid-phase absorbed F(ab') ₂ ; RPE. Purified	0.5 mL
---	-------	---	--------

Flow cytometry control reagent for MultiMix™ Dual-Color Reagents of the composition: solid-phase absorbed rabbit antibody F(ab')₂ fragment/FITC, and monoclonal mouse antibody isotype IgG1/RPE.

Rabbit F(ab')₂/FITC + Rabbit F(ab')₂/RPE

☐	X0935	FITC and RPE. Solid-phase absorbed F(ab') ₂	0.5 mL
---	-------	--	--------

Flow cytometry control reagent for MultiMix™ Dual-Color Reagents of the composition: solid-phase absorbed rabbit antibody F(ab')₂ fragment/FITC, and solid-phase absorbed rabbit antibody F(ab')₂ fragment/RPE.

Triple-Color Mouse Isotype/Rabbit Ig Reagents, FITC/RPE/APC Reagent Line

Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/APC

☐ X0978 FITC, RPE and APC. Purified 50 tests, 1 mL

Flow cytometry control reagent for MultiMix™ Triple-Color Reagents of the composition: monoclonal mouse antibody isotype IgG1/FITC, monoclonal mouse antibody isotype IgG1/RPE, and monoclonal mouse antibody isotype IgG1/APC.

Mouse IgG1/FITC + Rabbit F(ab')₂/RPE + Rabbit F(ab')₂/APC

☐ X0979 FITC, RPE and APC. Purified 1 mL

Flow cytometry control reagent for MultiMix™ Triple-Color Reagents of the composition: monoclonal mouse antibody isotype IgG1/FITC, solid-phase absorbed rabbit antibody F(ab')₂ fragment/RPE, and solid-phase absorbed rabbit antibody F(ab')₂ fragment/APC.

Triple-Color Mouse Isotype/Rabbit Ig Reagents, FITC/RPE/RPE-Cy5 Reagent Line

Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/RPE-Cy5

☐ X0956 FITC, RPE and RPE-Cy5. Purified 0.5 mL

Flow cytometry control reagent for MultiMix™ Triple-Color Reagents of the composition: monoclonal mouse antibody isotype IgG1/FITC, monoclonal mouse antibody isotype IgG1/RPE, and monoclonal mouse antibody isotype IgG1/RPE-Cy5.

Rabbit F(ab')₂/FITC + Rabbit F(ab')₂/RPE + Mouse IgG1/RPE-Cy5

☐ X0957 FITC and RPE. Solid-phase absorbed F(ab')₂; RPE-Cy5. Purified 0.5 mL

Flow cytometry control reagent for MultiMix™ Triple-Color Reagents of the composition: solid-phase absorbed rabbit antibody F(ab')₂ fragment/FITC, solid-phase absorbed rabbit antibody F(ab')₂ fragment/RPE, and monoclonal mouse antibody isotype IgG1/RPE-Cy5.



Unconjugated Control Reagents

Mouse IgG1

☐ X0931 Culture supernatant 1 mL

X0931 is a cell culture supernatant containing monoclonal mouse IgG1 antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X0931 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgG1.

Mouse IgG2a

☐ X0943 Culture supernatant 1 mL

X0943 is a cell culture supernatant containing monoclonal mouse IgG2a antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X0943 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgG2a.

Mouse IgG2b

☐ X0944 Culture supernatant 1 mL

X0944 is a cell culture supernatant containing monoclonal mouse IgG2b antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X0944 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgG2b.

Mouse IgM

☐ X0942 Culture supernatant 1 mL

X0942 is a cell culture supernatant containing monoclonal mouse IgM antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X0942 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgM.

Secondary Antibody Conjugates

The reagents listed in this section have been tailored to provide optimal specific fluorescence and a very low non-specific background in indirect immunofluorescence techniques.

Polyclonal Goat Anti-Mouse Immunoglobulins

☒	F0479	FITC. Affinity-isolated F(ab') ₂	2 mL
☒	R0480	RPE. Affinity-isolated F(ab') ₂	1 mL

Cross-reaction with human immunoglobulins and fetal calf serum has been removed by solid-phase absorption.

Polyclonal Rabbit Anti-Mouse Immunoglobulins

☒	F0313	FITC. F(ab') ₂	2 mL
☒	R0439	RPE. Affinity-isolated F(ab') ₂	1 mL

Cross-reaction with human immunoglobulins and fetal calf serum has been removed by solid-phase absorption.

Polyclonal Swine Anti-Rabbit Immunoglobulins

☒	F0054	FITC. Affinity-isolated F(ab') ₂	1 mL
---	-------	---	------

Cross-reaction with human immunoglobulins has been removed by solid-phase absorption.

Ancillary for Flow Cytometry

Phosphate-Buffered Saline (PBS), pH 7.0

☒	S3024		6 x 1 L
---	-------	--	---------

The buffer is supplied as 6 packages. Each makes 1 L of 0.02 mol/L sodium phosphate buffer, 0.15 mol/L NaCl, pH 7.0.

Kits and Accessories

This section includes a diverse range of kits and reagents used in flow cytometry such as our intracellular staining solution IntraStain and research solutions for quantitative determination of cell surface antigens

(QIFIKIT®) and measurement of telomeric sequences in vertebrate interphase hematopoietic cells (Telomere PNA Kit/FITC).

Calibration Beads

FluoroSpheres 6-Peak, Sensitivity Particles

☐ K0110 Calibration beads for daily monitoring of the flow cytometer 40 tests

FluoroSpheres 6-Peak are polystyrene microparticles suited for daily monitoring of the flow cytometer. FluoroSpheres contain a mixture of 3.2 µm microparticles of six different fluorescence intensities. Each particle contains a mixture of fluorochromes to be excited at any wavelength from 364 to 650 nm. This broad excitation range allows the kit to be used in instruments with UV, and single or dual laser light sources.

Enumeration of Stem Cells

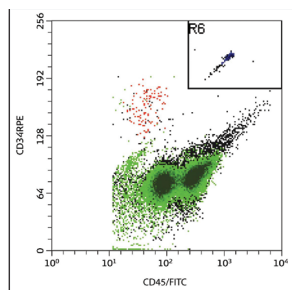
CD34Count Kit

☐ K2370 50 duplicate tests

CD34Count Kit has been designed to provide an optimal method for enumeration of CD34+ hematopoietic stem cells in human peripheral blood samples and leukapheresis samples from growth factor-stimulated individuals. The method follows the single-platform guidelines from The International Society for Hematotherapy and Graft Engineering (ISHAGE).

The test is performed in duplicate by staining the sample with a dual-color reagent composed of Anti-Human CD45/FITC and Anti-Human CD34/RPE. After staining of the sample, red blood cells are lysed with EasyLyse™, an ammonium chloride-based lysing reagent. Count control beads (CytoCount™) are added to the sample serving as an internal reference population. The addition of a known concentration of reference beads makes it possible to calculate the absolute number of CD34+ cells in the original specimen, i.e. to determine the number of CD34+ cells per µL of specimen.

7-amino-actinomycin D (7-AAD), which is also included in the kit, is added to the sample if viability measurement is required. 7-AAD binds to DNA, but is only able to diffuse into dead cells.

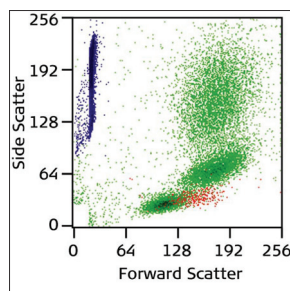


Leukapheresis sample. CD45/FITC vs. CD34/RPE. R6 is set around the CytoCount™ Beads. The red population is the CD34+ stem cells.

CytoCount™, Count Control Beads for Flow Cytometry

☐ S2366 150 tests, 17 mL

CytoCount™, Count Control Beads are polystyrene fluorospheres that are used as a reference population for the direct determination of the absolute count of any leucocyte population of interest, e.g. for CD4 and CD34 enumeration. The reagent is suitable for blood and leukapheresis samples. CytoCount™, Count Control Beads are 5.2 µm in diameter and are excited by 488 nm lasers. Each fluorosphere contains dye that has a fluorescent emission range of 520 to 700 nm.



Normal peripheral blood with CytoCount™ Beads, Code S2366. A lyse-no-wash protocol is used. The purple population represents the CytoCount™ Beads.

Lysing, Fixation and Permeabilization Reagents

Erythrocyte-Lysing Reagent, Uti-Lyze™

☒ S3325 Ready-to-use 250 tests, 25 mL

This reagent provides complete and gentle lysis of erythrocytes. It is used following immunofluorescence staining of cells from whole blood or bone marrow, and prior to flow cytometric analysis. Due to the optical matching properties of the lysing buffer, the residual red cell debris does not need to be removed by centrifugation for most samples, making the reagent suitable for use in both 'wash' and 'no wash' staining procedures. In addition to lysis of red cells, Uti-Lyze™ fixes and stabilizes leucocytes. The reagent is designed for use with most commercially available flow cytometers.

Erythrocyte-Lysing Reagent without Fixative, EasyLyse™

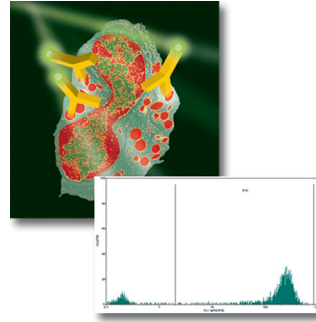
☒ S2364 Concentrated x 20 300 tests, 6 x 5 mL

This reagent provides complete and gentle lysis of erythrocytes. It is used following immunofluorescence staining of cells from whole blood, leukapheresis samples or cord blood, and prior to flow cytometric analysis. The reagent contains ammonium chloride and no fixative. One package contains 6 vials of 5 mL 20 x concentrated solution. Owing to the optical matching properties of EasyLyse™, the residual red cell debris does not need to be removed by centrifugation for most samples, making the reagent suitable for use in both 'wash' and 'no wash' staining procedures. The reagent is designed for use with most commercially available flow cytometers.

IntraStain

☒ K2311 100 tests

Fixation and permeabilization kit for flow cytometry. IntraStain is intended for two-step fixation and permeabilization of single-cell suspensions. This procedure allows immunological detection of intracellular antigens while the cellular structure, morphologic light scatter, and cell surface immunoreactivity remain intact. Cells treated with IntraStain can, therefore, be identified in flow cytometry by their light scatter properties and surface marker expression, while simultaneously being analysed for intracellular antigens.



Intracellular staining of cells from a case of acute myeloid leukemia using IntraStain, Code K2311, and Anti-Myeloperoxidase/FITC, Code F0714.

Quantitative Analysis

QIFIKIT®*

RUO K0078 10 calibrations

QIFIKIT® is intended for the quantitative determination of cell surface antigens by flow cytometry using indirect immunofluorescence assay (1, 2).

QIFIKIT® consists of a series of 6-bead populations, approximately 10 µm in diameter and coated with different, but well-defined quantities of a mouse monoclonal antibody (Mab). The number of Mab molecules on the 6-bead populations ranges from 0 to 400 000-800 000. The precise values are provided with the kit. The beads mimic cells labeled with a specific primary mouse monoclonal antibody.

Briefly, the procedure for quantitation is as follows: Specimen cells are labeled with primary mouse Mab at saturating concentration. Under this condition the primary Mab binds to the cell surface antigen monovalently. Therefore, the number of bound antibody molecules corresponds to the number of antigenic sites. Then, the cells are incubated, in parallel with the QIFIKIT® beads, with Polyclonal Goat Anti-Mouse Immunoglobulins/FITC, Goat F(ab)₂, Code F0479, at saturating concentration.

A calibration curve is constructed by plotting the fluorescence intensity of the individual bead populations against the number of Mab molecules on the beads. The number of antigenic sites on the specimen cells are then determined by interpolation.

The kit is presented as two complementary bead cocktails: A 'Set-Up Cocktail' and a 'Calibration Cocktail', each containing 1 mL, enough for 10 calibrations. Also included in the kit is 200 µL Polyclonal Goat Anti-Mouse Immunoglobulins/FITC, Goat F(ab)₂, Code F0479.

The kit is economical in use, as different cell specimens may be labeled with different primary antibodies and then quantitated using the same set of calibration beads. The only requirement is that specimens and beads are incubated with the conjugate simultaneously.

* Registered trademark of BIOCYTEX

References:

1. Poncelet P, Carayon P. Cytofluorometric quantification of cell-surface antigens by indirect immunofluorescence using monoclonal antibodies. *J Immunol Methods* 1985;85:65-74.
2. Poncelet P, Lavabre-Bertrand T, Carayon P. Quantitative phenotypes of B chronic lymphocytic leukemia B cells established with monoclonal antibodies from the B cell protocol. In: Reinherz EL et al., eds. *Leukocyte Typing II*. New York-Berlin-Heidelberg-Tokyo: Springer-Verlag, 1986;2:329-43.

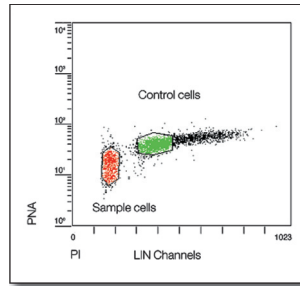
Telomere PNA Kit

Telomere PNA Kit/FITC, for Flow Cytometry

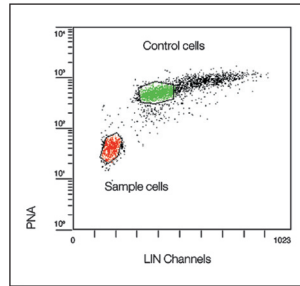
RUO K5327

20 duplicate tests

Telomere PNA Kit/FITC for Flow Cytometry provides a convenient method for measuring telomeric sequences in vertebrate interphase hematopoietic cells. The kit contains reagents for 20 duplicate tests (40 single tests). In addition to the fluorescein-conjugated peptide nucleic acid (PNA) probe in hybridization solution, the kit contains hybridization solution without probe for correction of cell autofluorescence, wash solution for post-hybridization washes and DNA staining solution for identification of G0/1-cells. The kit has been designed so that post-hybridization washes are kept to a minimum and formamide washes are avoided. In a mixture of sample cells (provided by the user) and control cells (provided by the user), the sample DNA is denatured at 82 °C for 10 minutes in an Eppendorf tube in the presence of hybridization solution with or without fluorescein-conjugated PNA telomere probe. Then, hybridization takes place in the dark at room temperature overnight. The hybridization is followed by 2 washes in wash solution at 40 °C for 10 minutes each. Finally the cells are resuspended in DNA-staining solution and stored in the dark at 2-8 °C for 2-3 hours before analysis by flow cytometry. The specific fluorescence from telomere staining will be observed in FL1, and fluorescence from DNA staining will be observed in FL3. Compared with the traditional telomere restriction fragment (TRF) method, a major advantage of the Telomere PNA Kit/FITC assay is that it does not suffer from the interaction of subtelomere sequences.



Cells mixed with hybridization solution without probe.



Cells hybridized with hybridization solution containing Telomere PNA Probe/FITC.

General Product Information

Monoclonal Antibodies

We produce a wide range of monoclonal mouse antibodies, which have been carefully selected on the basis of their value, either for research or for the analysis of pathological human cells by immunohistochemistry or flow cytometry.

Tissue Culture Antibodies. With only a few exceptions, our monoclonal antibodies are produced in tissue culture. This gives advantages in the use of the antibodies. For example, background problems are virtually absent with such reagents because all the mouse immunoglobulin molecules are directed against the target antigen.

Specificity. Our monoclonal antibodies are extensively screened on a multitude of tissue sections or other relevant biological material to ascertain that they possess the necessary specificity and give consistent, strong labeling reactions.

Solvent. Our monoclonal antibodies are, generally, supplied in the liquid form. The majority of unconjugated antibodies are supplied as tissue culture supernatants containing 0.05 mol/L Tris/HCl, pH 7.2, and 15 mmol/L sodium azide. The azide can be removed by dialysis or gel filtration if it interferes with the use of the antibody. However, after removal of the azide, the antibody must be stored frozen.

Storage. 2-8 °C.

Further Information. A package insert is supplied with each vial of monoclonal antibody. It states intended/recommended use, clone, isotype, specificity, as well as recommended staining procedure when applicable. Package inserts are also available on www.agilent.com.

The products require no hazard labeling.

Polyclonal Antibodies

Since 1966, we have produced polyclonal antibodies and our portfolio is constantly growing. Extensive knowledge of protein chemistry and immunochemistry, careful selection of animals for immunization, and optimal, long-term immunization schemes form the basis of our high-quality products.

Advantages of Rabbit Polyclonal Antibodies. Human antibodies reacting with rabbit immunoglobulins occurs rarely. Therefore, rabbit antibodies can be used without risk of non-specific binding even in very sensitive techniques.

Low Batch-to-Batch Variation. Our batches of polyclonal antibodies consist of the pooled sera from a large number of animals. This method eliminates the presence of a single predominating atypical antibody and therefore leads to a minimal batch-to-batch variation.

Immunoglobulin fractions. Our polyclonal antibodies are offered in the form of immunoglobulin fractions, with a few exceptions.

Specificity. Monospecificity of our polyclonal antibodies is obtained by the use of highly purified antigens for immunization. Traces of unwanted antibodies are removed by liquid or solid-phase absorption.

Affinity-isolated antibodies. Our antibodies are prepared by immune-affinity chromatography, using antigens coupled to a solid matrix. The elution and adsorption techniques used guarantee antibodies of high affinity.

F(ab')₂. We also provide antibodies lacking the Fc region. These F(ab')₂ fragments are derived from full length antibody by proteolytic cleavage and carry the antigen binding region.

The antigen binding fragment is purified by chromatographic methods to ensure consistent high purity and quality.

Fluorochrome-Conjugated Antibodies for Flow Cytometry

Characterization of Allophycocyanin (APC) Conjugates. Purified monoclonal antibodies or F(ab')₂ fragments of affinity-isolated antibodies are conjugated with cross-linked allophycocyanin (APC). After conjugation, unreacted APC and unreacted antibodies are completely removed by gel filtration. The molar APC/antibody ratio is approximately 1. APC conjugates can be excited at 633 nm or 635 nm (red lasers), and emit light at 660 nm.

Characterization of Fluorescein (FITC) Conjugates. Purified monoclonal antibodies or F(ab')₂ fragments of affinity-isolated polyclonal antibodies are conjugated with fluorescein isothiocyanate isomer 1 (FITC). After conjugation, unreacted FITC is completely removed by gel filtration. The molar FITC/antibody ratio is approximately 4. FITC conjugates can be excited at 488 nm (blue argon laser) and emit light at 530 nm.

Characterization of Pacific Blue (PB) Conjugates. Purified monoclonal antibodies are conjugated with Pacific Blue (PB)*. After conjugation, unreacted PB is completely removed by gel filtration. The molar PB/ab ratio is approximately 6. PB conjugates can be excited at 406 nm (violet laser) and emit light at 456 nm.

Characterization of Peridinin Chlorophyll Protein Complex (PerCP) Conjugates. Purified monoclonal antibodies are conjugated with Peridinin Chlorophyll Protein (PerCP). After conjugation, unreacted PerCP is completely removed by gel filtration. The molar PerCP/antibody ratio is approximately 2. PerCP conjugates can be excited at 488 nm (blue argon laser) and emit light at 676 nm.

Characterization of Peridinin Chlorophyll Protein Complex-Cy5.5 (PerCP-Cy5.5) Conjugates. Purified monoclonal antibodies are conjugated with an energy transfer fluorochrome (PerCP-Cy5.5) consisting of a cyanine dye, Cy5.5**, covalently coupled to Peridinin Chlorophyll Protein Complex (PerCP). The excitation energy, absorbed at 488 nm by PerCP is transferred to Cy5.5, which emits light at 695 nm. After conjugation, unreacted PerCP-Cy5.5 complex and unreacted antibodies are completely removed by gel filtration. The molar PerCP-Cy5.5/antibody ratio of the conjugate is approximately 1.

Characterization of Phycoerythrin (RPE) Conjugates. Purified monoclonal antibodies or F(ab')₂ fragments of affinity-isolated polyclonal antibodies are conjugated with R-phycoerythrin (RPE). After conjugation, unreacted RPE and unreacted antibodies are completely removed by gel filtration. The molar RPE/antibody ratio is approximately 1. RPE conjugates can be excited at 488 nm (blue argon laser) and emit light at 570 nm.

Characterization of Phycoerythrin-Cy5 (RPE-Cy5) Conjugates. Purified monoclonal antibodies are conjugated with an energy transfer fluorochrome (RPE-Cy5) consisting of a cyanine dye, Cy5**, covalently coupled to R-phycoerythrin (RPE). The excitation energy, absorbed at 488 nm by RPE, is transferred to Cy5, which emits light at 670 nm. After conjugation, unreacted RPE-Cy5-complex and unreacted antibodies are completely removed by gel filtration. The molar RPE-Cy5/antibody ratio of the conjugate is approximately 1. Please note that RPE-Cy5 conjugates may bind to monocytes resulting in background staining (1).

* The Pacific Blue™ antibody conjugates are sold under license from Life Technologies Corporation.

** Cy5 and Cy5.5 are trademarks of GE Healthcare Bio-Sciences Corp.

Dual-Color Reagents. MultiMix™ Dual-Color Reagents for flow cytometry are based on the combination of two antibodies labeled with FITC and RPE, respectively. This combination is particularly effective as both fluorochromes can be excited at 488 nm, and the fluorescence emission for FITC is in the green region around 530 nm while the RPE emission is in the orange region above 570 nm. Dual-Color Reagents are excellent for distinguishing different cell populations simultaneously.

Triple-Color Reagents. MultiMix™ Triple-Color Reagents for flow cytometry are based on the combination of three antibodies labeled with FITC, RPE and APC, or FITC, RPE and RPE-Cy5, respectively. The Triple-Color Reagents are designed for flow cytometers equipped with a 488 nm (blue) light source for excitation of FITC, RPE and RPE-Cy5, and a 633/635 nm (red) light source for excitation of APC. The antibody and fluorochrome combinations are carefully chosen to provide convenient and reliable reagents for simultaneous identification of specific cell populations.

Performance Testing. All conjugates are thoroughly tested to confirm optimal performance in flow cytometry.

Solvent. The fluorochrome conjugates are offered in liquid form in buffer, containing 15 mmol/L sodium azide and 1% bovine serum albumin.

Storage. The conjugates should be stored in the dark at 2-8 °C.

Further Information. A package insert is supplied with each vial of conjugate. It provides product-specific details. Package inserts are also available on www.agilent.com.

The products require no hazard labeling.

Reference

1. van Vugt MJ, van den Herik-Oudijk IE, van de Winkel JGJ. Binding of PE-Cy5 conjugates to the human high-affinity receptor for IgG (CD64). *Blood* 1996;88:2358-61.

Product Code Index

Code	Product	Package Size	Order No.	See Page
C				
C0222	Polyclonal Rabbit Anti-Human Kappa Light Chains/APC, Rabbit F(ab') ₂	100 tests, 1 mL	C022201	24
C7066	Monoclonal Mouse Anti-Human CD19/RPE-Cy5, Clone HD37	100 tests, 1 mL	C706601	20
C7067	Monoclonal Mouse Anti-Human CD3/RPE-Cy5, Clone UCHT1	100 tests, 1 mL	C706701	18
C7079	Monoclonal Mouse Anti-Human CD8/RPE-Cy5, Clone DK25	100 tests, 1 mL	C707901	19
C7099	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/RPE-Cy5, Clone T29/33	100 tests, 1 mL	C709901	21
C7132	Monoclonal Mouse Anti-Human CD20/RPE-Cy5, Clone B-Ly1	100 tests, 1 mL	C713201	20
C7224	Monoclonal Mouse Anti-Human CD19/APC, Clone HD37	100 tests, 1 mL	C722401	20
C7225	Monoclonal Mouse Anti-Human CD3/APC, Clone UCHT1	100 tests, 1 mL	C722501	18
C7226	Monoclonal Mouse Anti-Human CD4/APC, Clone MT310	100 tests, 1 mL	C722601	18
C7227	Monoclonal Mouse Anti-Human CD8/APC, Clone DK25	100 tests, 1 mL	C722701	19
C7230	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/APC, Clone T29/33	100 tests, 1 mL	C723001	21
C7238	Monoclonal Mouse Anti-Human CD34 Class III/APC, Clone BIRMA-K3	50 tests, 0.5 mL	C723850	21
C7242	Monoclonal Mouse Anti-Human CD5/APC, Clone DK23	100 tests, 1 mL	C724201	18
C7244	Monoclonal Mouse Anti-Human CD117, c-kit/APC, Clone 104D2	100 tests, 1 mL	C724401	23
C7246	Monoclonal Mouse Anti-Human Myeloperoxidase/APC, Clone MPO-7	100 tests, 1 mL	C724601	24
C7252	Monoclonal Mouse Anti-Human CD79 α cy/APC, Clone HM57	100 tests, 1 mL	C725201	22
C7256	Monoclonal Mouse Anti-Human CD138/APC, Clone MI15	100 tests, 1 mL	C725601	23
C7278	Monoclonal Mouse Anti-Human CD64, Fc Gamma Receptor I/APC, Clone 10.1	100 tests, 1 mL	C727801	22
C7280	Monoclonal Mouse Anti-Human CD61, Platelet Glycoprotein IIIa/APC, Clone Y2/51	100 tests, 1 mL	C728001	22
C7281	Monoclonal Mouse Anti-Human CD22/APC, Clone 4KB128	100 tests, 1 mL	C728101	20
F				
F0054	Polyclonal Swine Anti-Rabbit Immunoglobulins/FITC, Swine F(ab') ₂	1 mL	F005401	34
F0058	Polyclonal Rabbit Anti-Human IgM/FITC, Rabbit F(ab') ₂	100 tests, 1 mL	F005801	24
F0185	Polyclonal Rabbit Anti-Human IgG/FITC, Rabbit F(ab') ₂	100 tests, 1 mL	F018501	24
F0188	Polyclonal Rabbit Anti-Human IgA/FITC, Rabbit F(ab') ₂	100 tests, 1 mL	F018801	24
F0189	Polyclonal Rabbit Anti-Human IgD/FITC, Rabbit F(ab') ₂	100 tests, 1 mL	F018901	24
F0313	Polyclonal Rabbit Anti-Mouse Immunoglobulins/FITC, Rabbit F(ab') ₂	2 mL	F031302	34
F0372	Polyclonal Rabbit Anti-Human Lysozyme EC 3.2.1.17/FITC	100 tests, 1 mL	F037201	24
F0434	Polyclonal Rabbit Anti-Human Kappa Light Chains/FITC, Rabbit F(ab') ₂	100 tests, 1 mL	F043401	24
F0435	Polyclonal Rabbit Anti-Human Lambda Light Chains/FITC, Rabbit F(ab') ₂	100 tests, 1 mL	F043501	24
F0479	Polyclonal Goat Anti-Mouse Immunoglobulins/FITC, Goat F(ab') ₂	2 mL	F047902	34
F0713	Monoclonal Mouse Anti-Human CD11c, Protein 150,95/FITC, Clone KB90	100 tests, 1 mL	F071301	19
F0714	Monoclonal Mouse Anti-Human Myeloperoxidase/FITC, Clone MPO-7	100 tests, 1 mL	F071401	24
F0765	Monoclonal Mouse Anti-Human CD8/FITC, Clone DK25	100 tests, 1 mL	F076501	19
F0766	Monoclonal Mouse Anti-Human CD4/FITC, Clone MT310	100 tests, 1 mL	F076601	18
F0767	Monoclonal Mouse Anti-Human CD2/FITC, Clone MT910	100 tests, 1 mL	F076701	18
F0768	Monoclonal Mouse Anti-Human CD19/FITC, Clone HD37	100 tests, 1 mL	F076801	20
F0788	Monoclonal Mouse Anti-Human Ki-67 Antigen/FITC, Clone Ki-67	100 tests, 1 mL	F078801	24
F0789	Monoclonal Mouse Anti-Human CD7/FITC, Clone DK24	100 tests, 1 mL	F078901	19
F0795	Monoclonal Mouse Anti-Human CD5/FITC, Clone DK23	100 tests, 1 mL	F079501	18
F0799	Monoclonal Mouse Anti-Human CD20/FITC, Clone B-Ly1	100 tests, 1 mL	F079901	20
F0800	Monoclonal Mouse Anti-Human CD45RO/FITC, Clone UCHL1	100 tests, 1 mL	F080001	21
F0801	Monoclonal Mouse Anti-Human CD25, Interleukin-2 Receptor/FITC, Clone ACT-1	100 tests, 1 mL	F080101	20
F0803	Monoclonal Mouse Anti-Human CD61, Platelet Glycoprotein IIIa/FITC, Clone Y2/51	100 tests, 1 mL	F080301	22
F0817	Monoclonal Mouse Anti-Human HLA-DP, DQ, DR Antigen/FITC, Clone CR3/43	100 tests, 1 mL	F081701	23
F0818	Monoclonal Mouse Anti-Human CD3/FITC, Clone UCHT1	100 tests, 1 mL	F081801	18
F0826	Monoclonal Mouse Anti-Human CD10/FITC, Clone SS2/36	100 tests, 1 mL	F082601	19
F0829	Monoclonal Mouse Anti-Human CD71, Transferrin Receptor/FITC, Clone Ber-T9	100 tests, 1 mL	F082901	22
F0830	Monoclonal Mouse Anti-Human CD15/FITC, Clone C3D-1	100 tests, 1 mL	F083001	19
F0831	Monoclonal Mouse Anti-Human CD13/FITC, Clone WM-47	100 tests, 1 mL	F083101	19
F0832	Monoclonal Mouse Anti-Human CD33/FITC, Clone WM-54	100 tests, 1 mL	F083201	21
F0844	Monoclonal Mouse Anti-Human CD14/FITC, Clone TUK4	100 tests, 1 mL	F084401	19
F0849	Monoclonal Mouse Anti-Human CD30/FITC, Clone Ber-H2	100 tests, 1 mL	F084901	20

Product Code Index (continued)

Code	Product	Package Size	Order No.	See Page
F0860	Monoclonal Mouse Anti-Human Epithelial Antigen/FITC, Clone Ber-EP4	100 tests, 1 mL	F086001	23
F0861	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/FITC, Clone T29/33	100 tests, 1 mL	F086101	21
F0870	Monoclonal Mouse Anti-Human CD235a, Glycophorin A/FITC, Clone JC159	100 tests, 1 mL	F087001	23
F7011	Monoclonal Mouse Anti-Human CD16, Fc Gamma Receptor III/FITC, Clone DJ130c	100 tests, 1 mL	F701101	19
F7053	Monoclonal Mouse Anti-Human BCL2 Oncoprotein/FITC, Clone 124	100 tests, 1 mL	F705301	18
F7060	Monoclonal Mouse Anti-Human CD22/FITC, Clone 4KB128	100 tests, 1 mL	F706001	20
F7062	Monoclonal Mouse Anti-Human CD23/FITC, Clone MHM6	100 tests, 1 mL	F706201	20
F7081	Monoclonal Mouse Anti-Human CD34 Class III/FITC, Clone BIRMA-K3	100 tests, 1 mL	F708101	21
F7088	Monoclonal Mouse Anti-Human CD41, Platelet Glycoprotein IIb/FITC, Clone 5B12	100 tests, 1 mL	F708801	21
F7101	Monoclonal Mouse Anti-Human CD38/FITC, Clone AT13/5	100 tests, 1 mL	F710101	21
F7102	Monoclonal Mouse Anti-Human CD43/FITC, Clone DF-T1	100 tests, 1 mL	F710201	21
F7110	Monoclonal Mouse Anti-Human B Cell/FITC, Clone FMC7	100 tests, 1 mL	F711001	18
F7112	Monoclonal Mouse Anti-Human CD66abce/FITC, Clone Kat4c	100 tests, 1 mL	F711201	22
F7134	Monoclonal Mouse Anti-Human CD24/FITC, Clone SN3	100 tests, 1 mL	F713401	20
F7135	Monoclonal Mouse Anti-Human CD68/FITC, Clone KP1	100 tests, 1 mL	F713501	22
F7137	Monoclonal Mouse Anti-Human CD79 β /FITC, Clone SN8	100 tests, 1 mL	F713701	22
F7138	Monoclonal Mouse Anti-Human CD103, Mucosa Lymphocyte Antigen/FITC, Clone Ber-ACT8	100 tests, 1 mL	F713801	23
F7139	Monoclonal Mouse Anti-Human Terminal Deoxynucleotidyl Transferase/FITC, Clone HT-6	50 tests, 0.5 mL	F713950	25
F7141	Monoclonal Mouse Anti-Human CD1a/FITC, Clone NA1/34	100 tests, 1 mL	F714101	18
F7143	Monoclonal Mouse Anti-Human CD54, ICAM-1/FITC, Clone 6.5B5	100 tests, 1 mL	F714301	21
F7149	Monoclonal Mouse Anti-Human Plasma Cell/FITC, Clone VS38c	100 tests, 1 mL	F714901	25
F7178	Monoclonal Mouse Anti-Human CD27/FITC, Clone M-T271	100 tests, 1 mL	F717801	20
F7266	Monoclonal Mouse Anti-Human HLA-DR Antigen/FITC, Clone AB3	100 tests, 1 mL	F726601	24
F7268	Monoclonal Mouse Anti-Human Ki-67 Antigen/FITC, Clone MIB-1	100 tests, 1 mL	F726801	24
F7270	Monoclonal Mouse Anti-Human CD57/FITC, Clone TB01	100 tests, 1 mL	F727001	22
F7274	Monoclonal Mouse Anti-Human CD90/FITC, Clone 5E10	100 tests, 1 mL	F727401	23
F7276	Monoclonal Mouse Anti-Human CD7/FITC, Clone CBC.37	100 tests, 1 mL	F727601	19
FR044	MultiMix™ Dual-Colour Reagent, Anti-Human Lambda Light Chains/FITC + Anti-Human CD19/RPE	50 tests, 0.5 mL	FR04450	26
FR048	MultiMix™ Dual-Colour Reagent, Anti-Human Kappa Light Chains/FITC + Anti-Human CD19/RPE	50 tests, 0.5 mL	FR04850	26
FR481	MultiMix™ Dual-Colour Reagent, Anti-Human Kappa Light Chains/FITC + Anti-Human Lambda Light Chains/RPE	50 tests, 0.5 mL	FR48150	26
FR700	MultiMix™ Dual-Colour Reagent, Anti-Human CD45/FITC + Anti-Human CD14/RPE	50 tests, 0.5 mL	FR70050	26
FR729	MultiMix™ Dual-Colour Reagent, Anti-Human CD5/FITC + Anti-Human CD20/RPE	50 tests, 0.5 mL	FR72950	26
FR866	MultiMix™ Dual-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD19/RPE	50 tests, 0.5 mL	FR86650	26
FR867	MultiMix™ Dual-Colour Reagent, Anti-Human HLA-DP, DQ, DR Antigen/FITC + Anti-Human CD3/RPE	50 tests, 0.5 mL	FR86750	26
FR868	MultiMix™ Dual-Colour Reagent, Anti-Human CD4/FITC + Anti-Human CD8/RPE	50 tests, 0.5 mL	FR86850	26
FR875	MultiMix™ Dual-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD4/RPE	50 tests, 0.5 mL	FR87550	26
FR881	MultiMix™ Dual-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD8/RPE	50 tests, 0.5 mL	FR88150	26
FR882	MultiMix™ Dual-Colour Reagent, Anti-Human CD5/FITC + Anti-Human CD19/RPE	50 tests, 0.5 mL	FR88250	26
FR883	MultiMix™ Dual-Colour Reagent, Anti-Human CD10/FITC + Anti-Human CD19/RPE	50 tests, 0.5 mL	FR88350	26
FR894	MultiMix™ Dual-Colour Reagent, Anti-Human CD2/FITC + Anti-Human CD19/RPE	50 tests, 0.5 mL	FR89450	26
K				
K0078	QIFIKIT®	10 calibrations	K007811	36
K0110	FluoroSpheres	40 tests	K011011	35
K2311	IntraStain	100 tests	K231111	36
K2370	CD34Count Kit	50 duplicate tests	K237011	35
K5327	Telomere PNA Kit/FITC for Flow Cytometry	20 duplicate tests	K532711	37
P				
PB982	Monoclonal Mouse Anti-Human CD3/PB, Clone UCHT1	100 tests, 1 mL	PB98201	18

Product Code Index (continued)

Code	Product	Package Size	Order No.	See Page
PB984	Monoclonal Mouse Anti-Human CD8/PB, Clone DK25	100 tests, 1 mL	PB98401	19
PB985	Monoclonal Mouse Anti-Human CD19/PB, Clone HD37	100 tests, 1 mL	PB98501	20
PB986	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/PB, Clone T29/33	100 tests, 1 mL	PB98601	21
PR701	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/PerCP, Clone 2D1	100 tests, 1 mL	PR70101	21
PR702	Monoclonal Mouse Anti-Human CD3/PerCP, Clone UCHT1	100 tests, 1 mL	PR70201	18
PR703	Monoclonal Mouse Anti-Human CD19/PerCP-Cy5.5, Clone HD37	100 tests, 0.5 mL	PR70350	20
PR704	Monoclonal Mouse Anti-Human Myeloperoxidase/PerCP-Cy5.5, Clone MPO-7	100 tests, 0.5 mL	PR70450	24
PR706	Monoclonal Mouse Anti-Human CD34 Class III/PerCP-Cy5.5, Clone BIRMA-K3	100 tests, 0.5 mL	PR70650	21
R				
R0436	Polyclonal Rabbit Anti-Human Kappa Light Chains/RPE, Rabbit F(ab') ₂	100 tests, 1 mL	R043601	24
R0437	Polyclonal Rabbit Anti-Human Lambda Light Chains/RPE, Rabbit F(ab') ₂	100 tests, 1 mL	R043701	24
R0439	Polyclonal Rabbit Anti-Mouse Immunoglobulins/RPE, Rabbit F(ab') ₂	1 mL	R043901	34
R0480	Polyclonal Goat Anti-Mouse Immunoglobulins/RPE, Goat F(ab') ₂	1 mL	R048001	34
R0715	Monoclonal Mouse Anti-Human CD13/RPE, Clone WM-47	100 tests, 1 mL	R071501	19
R0745	Monoclonal Mouse Anti-Human CD33/RPE, Clone WM-54	100 tests, 1 mL	R074501	21
R0805	Monoclonal Mouse Anti-Human CD4/RPE, Clone MT310	100 tests, 1 mL	R080501	18
R0806	Monoclonal Mouse Anti-Human CD8/RPE, Clone DK25	100 tests, 1 mL	R080601	19
R0807	Monoclonal Mouse Anti-Human CD2/RPE, Clone MT910	100 tests, 1 mL	R080701	18
R0808	Monoclonal Mouse Anti-Human CD19/RPE, Clone HD37	100 tests, 1 mL	R080801	20
R0810	Monoclonal Mouse Anti-Human CD3/RPE, Clone UCHT1	100 tests, 1 mL	R081001	18
R0811	Monoclonal Mouse Anti-Human CD25, Interleukin-2 Receptor/RPE, Clone ACT-1	100 tests, 1 mL	R081101	20
R0841	Monoclonal Mouse Anti-Human CD11b, C3bi Receptor/RPE, Clone 2LPM19c	100 tests, 1 mL	R084101	19
R0842	Monoclonal Mouse Anti-Human CD5/RPE, Clone DK23	100 tests, 1 mL	R084201	18
R0843	Monoclonal Mouse Anti-Human CD45RO/RPE, Clone UCHL1	100 tests, 1 mL	R084301	21
R0848	Monoclonal Mouse Anti-Human CD10/RPE, Clone SS2/36	100 tests, 1 mL	R084801	19
R0864	Monoclonal Mouse Anti-Human CD14/RPE, Clone TÜK4	100 tests, 1 mL	R086401	19
R5111	Polyclonal Rabbit Anti-Human IgM/RPE, Rabbit F(ab') ₂	100 tests, 1 mL	R511101	24
R5112	Polyclonal Rabbit Anti-Human IgD/RPE, Rabbit F(ab') ₂	100 tests, 1 mL	R511201	24
R7000	Monoclonal Mouse Anti-Human HLA-ABC Antigen/RPE, Clone W6/32	100 tests, 1 mL	R700001	23
R7012	Monoclonal Mouse Anti-Human CD16, Fc Gamma Receptor III/RPE, Clone DJ130c	100 tests, 1 mL	R701201	19
R7013	Monoclonal Mouse Anti-Human CD20/RPE, Clone B-Ly1	100 tests, 1 mL	R701301	20
R7014	Monoclonal Mouse Anti-Human CD42b, Platelet Glycoprotein Ib/RPE, Clone AN51	100 tests, 1 mL	R701401	21
R7058	Monoclonal Mouse Anti-Human CD41, Platelet Glycoprotein IIb/RPE, Clone 5B12	100 tests, 1 mL	R705801	21
R7061	Monoclonal Mouse Anti-Human CD22/RPE, Clone 4KB128	100 tests, 1 mL	R706101	20
R7078	Monoclonal Mouse Anti-Human CD235a, Glycophorin A/RPE, Clone JC159	100 tests, 1 mL	R707801	23
R7086	Monoclonal Mouse Anti-Human CD45RA/RPE, Clone 4KB5	100 tests, 1 mL	R708601	21
R7087	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/RPE, Clone T29/33	100 tests, 1 mL	R708701	21
R7108	Monoclonal Mouse Anti-Human CD23/RPE, Clone MHM6	100 tests, 1 mL	R710801	20
R7125	Monoclonal Mouse Anti-Human CD34 Class III/RPE, Clone BIRMA-K3	100 tests, 1 mL	R712501	21
R7127	Monoclonal Mouse Anti-Human CD56/RPE, Clone MOC-1	100 tests, 1 mL	R712701	22
R7144	Monoclonal Mouse Anti-Human CD38/RPE, Clone AT13/5	100 tests, 1 mL	R714401	21
R7145	Monoclonal Mouse Anti-Human CD117, c-kit/RPE, Clone 104D2	100 tests, 1 mL	R714501	23
R7159	Monoclonal Mouse Anti-Human CD79 α cy/RPE, Clone HM57	100 tests, 1 mL	R715901	22
R7164	Monoclonal Mouse Anti-Human CD28/RPE, Clone CD28.1	100 tests, 1 mL	R716401	20
R7173	Monoclonal Mouse Anti-Human CD69/RPE, Clone FN50	100 tests, 1 mL	R717301	22
R7179	Monoclonal Mouse Anti-Human CD27/RPE, Clone M-T271	100 tests, 1 mL	R717901	20
R7188	Monoclonal Mouse Anti-Human CD103, Mucosa Lymphocyte Antigen/RPE, Clone Ber-ACT8	100 tests, 1 mL	R718801	23
R7189	Monoclonal Mouse Anti-Human CD1a/RPE, Clone NA1/34	100 tests, 1 mL	R718901	18
R7209	Monoclonal Mouse Anti-Human Myeloperoxidase/RPE, Clone MPO-7	100 tests, 1 mL	R720901	24
R7219	Monoclonal Mouse Anti-Human CD64, Fc Gamma Receptor I/RPE, Clone 10.1	100 tests, 1 mL	R721901	22
R7229	Monoclonal Mouse Anti-Human CD138/RPE, Clone MI15	100 tests, 1 mL	R722901	23
R7251	Monoclonal Mouse Anti-Human CD56/RPE, Clone C5.9	100 tests, 1 mL	R725101	22
R7267	Monoclonal Mouse Anti-Human HLA-DR Antigen/RPE, Clone AB3	100 tests, 1 mL	R726701	24
R7272	Monoclonal Mouse Anti-Human CD79 β /RPE, Clone SN8	100 tests, 1 mL	R727201	22

Product Code Index (continued)

Code	Product	Package Size	Order No.	See Page
R7277	Monoclonal Mouse Anti-Human CD7/RPE, Clone CBC.37	100 tests, 1 mL	R727701	19
S				
S2364	EasyLyse™, Erythrocyte-Lysing Reagent	300 tests, 6 x 5 mL	S236430	36
S2366	CytoCount™	150 tests, 17 mL	S236630	35
S3024	Phosphate-Buffered Saline (PBS), pH 7.0	6 x 1 L	S302430	34
S3325	Uti-Lyse™, Erythrocyte-Lysing Reagent	250 tests, 25 mL	S332530	36
T				
TC051	MultiMix™ Triple-Colour Reagent, Anti-Human Kappa Light Chains/FITC + Anti-Human Lambda Light Chains/RPE + Anti-Human CD19/RPE-Cy5	50 tests, 0.5 mL	TC05150	31
TC641	MultiMix™ Triple-Colour Reagent, Anti-Human CD8/FITC + Anti-Human CD4/RPE + Anti-Human CD3/RPE-Cy5	50 tests, 0.5 mL	TC64150	31
TC660	MultiMix™ Triple-Colour Reagent, Anti-Human CD8/FITC + Anti-Human CD4/RPE + Anti-Human CD3/APC	50 tests, 1 mL	TC66001	28
TC661	MultiMix™ Triple-Colour Reagent, Anti-Human CD16/FITC + Anti-Human CD56/RPE + Anti-Human CD3/APC	50 tests, 1 mL	TC66101	28
TC663	MultiMix™ Triple-Colour Reagent, Anti-Human CD20/FITC + Anti-Human CD5/RPE + Anti-Human CD19/APC	50 tests, 1 mL	TC66301	28
TC664	MultiMix™ Triple-Colour Reagent, Anti-Human CD5/FITC + Anti-Human CD10/RPE + Anti-Human CD19/APC	50 tests, 1 mL	TC66401	28
TC665	MultiMix™ Triple-Colour Reagent, Anti-Human CD103/FITC + Anti-Human CD11c/RPE + Anti-Human CD19/APC	50 tests, 1 mL	TC66501	30
TC666	MultiMix™ Triple-Colour Reagent, Anti-Human CD2/FITC + Anti-Human CD34 Class III/RPE + Anti-Human CD5/APC	50 tests, 1 mL	TC66601	27
TC667	MultiMix™ Triple-Colour Reagent, Anti-Human MPO/FITC + Anti-Human CD79αcy/RPE + Anti-Human CD3/APC	50 tests, 1 mL	TC66701	30
TC668	MultiMix™ Triple-Colour Reagent, Anti-Human TdT/FITC + Anti-Human CD22/RPE + Anti-Human CD3/APC	50 tests, 1 mL	TC66801	31
TC669	MultiMix™ Triple-Colour Reagent, Anti-Human CD19/FITC + Anti-Human Lambda Light Chains/RPE + Anti-Human Kappa Light Chains/APC	50 tests, 1 mL	TC66901	28
TC670	MultiMix™ Triple-Colour Reagent, Anti-Human Plasma Cell/FITC + Anti-Human Lambda Light Chains/RPE + Anti-Human Kappa Light Chains/APC	50 tests, 1 mL	TC67001	31
TC671	MultiMix™ Triple-Colour Reagent, Anti-Human CD38/FITC + Anti-Human CD56/RPE + Anti-Human CD45/APC	50 tests, 1 mL	TC67101	29
TC674	MultiMix™ Triple-Colour Reagent, Anti-Human CD38/FITC + Anti-Human CD56/RPE + Anti-Human CD19/APC	50 tests, 1 mL	TC67401	29
TC675	MultiMix™ Triple-Colour Reagent, Anti-Human CD71/FITC + Anti-Human CD235a/RPE + Anti-Human CD45/APC	50 tests, 1 mL	TC67501	29
TC677	MultiMix™ Triple-Colour Reagent, Anti-Human CD2/FITC + Anti-Human CD7/RPE + Anti-Human CD3/APC	50 tests, 1 mL	TC67701	27
TC683	MultiMix™ Triple-Colour Reagent, Anti-Human B Cell (FMC7)/FITC + Anti-Human CD23/RPE + Anti-Human CD19/APC	50 tests, 1 mL	TC68301	27
TC685	MultiMix™ Triple-Colour Reagent, Anti-Human CD13/FITC + Anti-Human HLA-DR Antigen/RPE + Anti-Human CD117/APC	50 tests, 1 mL	TC68501	28
TC686	MultiMix™ Triple-Colour Reagent, Anti-Human CD33/FITC + Anti-Human CD34/RPE + Anti-Human CD117/APC	50 tests, 1 mL	TC68601	29
TC687	MultiMix™ Triple-Colour Reagent, Anti-Human CD41/FITC + Anti-Human CD34/RPE + Anti-Human CD61/APC	50 tests, 1 mL	TC68701	29
TC689	MultiMix™ Triple-Colour Reagent, Anti-Human CD19/FITC + Anti-Human CD34/RPE + Anti-Human CD22/APC	50 tests, 1 mL	TC68901	28
TC690	MultiMix™ Triple-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD19/RPE + Anti-Human CD45/APC	50 tests, 1 mL	TC69001	28
X				
X0927	Control Reagent, Mouse IgG1/FITC	1 mL	X092701	32
X0928	Control Reagent, Mouse IgG1/RPE	1 mL	X092801	32
X0929	Control Reagent, Rabbit F(ab') ₂ /FITC	1 mL	X092901	32
X0930	Control Reagent, Rabbit F(ab') ₂ /RPE	1 mL	X093001	32
X0931	Control Reagent, Mouse IgG1	1 mL	X093101	33
X0932	MultiMix™ Dual-Colour Control Reagent, Mouse IgG1/FITC + Mouse IgG1/RPE	0.5 mL	X093250	32
X0933	Control Reagent, Mouse IgG2a/FITC	1 mL	X093301	32

Product Code Index (continued)

Code	Product	Package Size	Order No.	See Page
X0934	Control Reagent, Mouse IgM/FITC	1 mL	X093401	32
X0935	MultiMix™ Dual-Colour Control Reagent, Rabbit F(ab') ₂ /FITC + Rabbit F(ab') ₂ /RPE	0.5 mL	X093550	32
X0941	Control Reagent, Mouse IgG2b/FITC	1 mL	X094101	32
X0942	Control Reagent, Mouse IgM	1 mL	X094201	33
X0943	Control Reagent, Mouse IgG2a	1 mL	X094301	33
X0944	Control Reagent, Mouse IgG2b	1 mL	X094401	33
X0949	MultiMix™ Dual-Colour Control Reagent, Mouse IgG1/FITC + Mouse IgG2a/RPE	0.5 mL	X094950	32
X0950	Control Reagent, Mouse IgG2a/RPE	1 mL	X095001	32
X0952	MultiMix™ Dual-Colour Control Reagent, Rabbit F(ab') ₂ /FITC + Mouse IgG1/RPE	0.5 mL	X095250	32
X0955	Control Reagent, Mouse IgG1/RPE-Cy5	1 mL	X095501	32
X0956	MultiMix™ Triple-Colour Control Reagent, Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/RPE-Cy5	0.5 mL	X095650	33
X0957	MultiMix™ Triple-Colour Control Reagent, Rabbit F(ab') ₂ /FITC + Rabbit F(ab') ₂ /RPE + Mouse IgG1/RPE-Cy5	0.5 mL	X095750	33
X0968	Control Reagent, Mouse IgG1/APC	1 mL	X096801	32
X0978	MultiMix™ Triple-Colour Control Reagent, Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/APC	1 mL	X097801	33
X0979	MultiMix™ Triple-Colour Control Reagent, Mouse IgG1/FITC + Rabbit F(ab') ₂ /RPE + Rabbit F(ab') ₂ /APC	1 mL	X097901	33
X0998	Control Reagent, Rabbit F(ab') ₂ /APC	1 mL	X099801	32

OUR VISION

"We want to be the preferred manufacturer of antibodies for IVD laboratories and IVD manufacturers to deliver the highest standard and accuracy in diagnostics of cancer, diabetes, cardiovascular and kidney diseases".



Agilent Reagent Solutions

www.agilent.com

Represented in more
than 100 countries

Agilent Technologies Denmark ApS
Produktionsvej 42
Dk-2600 Glostrup
Denmark

Tel. +45 44 85 95 00
rpsupport@agilent.com