

POLYCLONAL

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## Goat Polyclonal Anti-Mouse

Clone: Goat Poly  
Isotype: Mouse Fc

CE-marked soon

**CELLULAR EXPRESSION:** The polyclonal goat anti-mouse Fc<sub>γ</sub> reacts with the heavy chains on mouse Ig subclasses 1, 2a, 2b y 3, but not with the light chain on most mouse immunoglobulins. No antibody was detected against mouse IgM, or against non-immunoglobulin serum proteins. The antibody has been absorbed to ensure minimal cross-reaction with human, bovine, and rabbit serum proteins.

Product	Code No.	Fluorochrome	Size
GOATPOLYPURE	GOATPOLYPUREANTIMOUFCG	PURE	0,1 MG
GOATPOLYFITC	GOATPOLYFITCANTIMOUFCG	FITC	100 Test

## Goat Polyclonal Anti-Mouse

Clone: Goat Poly  
Isotype: Mouse IgG (H+L)

CE-marked soon

**CELLULAR EXPRESSION:** The polyclonal goat anti-mouse IgG (H+L) reacts with the heavy chains and light chain on mouse Ig subclasses 1, 2a, 2b y 3, but not with the IgM. No antibody was detected against non-immunoglobulin serum proteins. The antibody has been absorbed to ensure minimal cross-reaction with human, bovine, and rabbit serum proteins.

Product	Code No.	Fluorochrome	Size
GOATPOLYPURE	GOATPOLYPUREANTIMOUIGGHL	PURE	0,1 MG
GOATPOLYFITC	GOATPOLYFITCANTIMOUIGGHL	FITC	100 Test

## Goat Polyclonal Anti-Mouse

Clone: Goat Poly  
Isotype: Mouse IgG + IgM

CE-marked soon

**CELLULAR EXPRESSION:** The polyclonal goat anti-mouse IgG+IgM antiserum was purified by immunoaffinity chromatography using antigen coupled to agarosa beads. It contains minimal cross-reactivity to human, bovine and horse serum proteins. This reagent is effective as a secondary step using murine monoclonal antibody having IgG1, IgG2a, IgG2b, IgG3 and IgM isotypes.

Product	Code No.	Fluorochrome	Size
GOATPOLYPURE	GOATPOLYPUREANTIMOUIGGIGM	PURE	0,1 MG
GOATPOLYFITC	GOATPOLYFITCANTIMOUIGGIGM	FITC	100 Test

## Rabbit Polyclonal Anti-Mouse

Clone: Rabbit Poly  
Isotype: Mouse IgG F(ab')<sub>2</sub>

CE-marked soon

**CELLULAR EXPRESSION:** The polyclonal rabbit anti-mouse IgG F(ab')<sub>2</sub> antiserum was purified by immunoaffinity chromatography using antigen coupled to agarosa beads. It contains minimal cross-reactivity to human, bovine and horse serum proteins. This reagent is effective as a secondary step using murine monoclonal antibody having IgG F(ab')<sub>2</sub>.

Product	Code No.	Fluorochrome	Size
RABPOLYPURE	RABPOLYPUREANTIMOUIGFAB	PURE	0,1 MG
RABPOLYFITC	RABPOLYFITCANTIMOUIGFAB	FITC	100 Test



# APOPTOSIS TOOLS FOR FLOW CYTOMETRY APPLICATIONS





# Product: ANNEXIN V- FITC

CE-marked  
soon

## Introduction:

Apoptosis is a regulated process of cell death that occurs during embryonic development as well as maintenance of tissue homeostasis. Inappropriately regulated apoptosis is implicated in different disease states, such as neurodegeneration disease and cancer. The apoptosis program is characterized by morphologic features, including loss of plasma membrane asymmetry and attachment, condensation of the cytoplasm and nucleus, and compaction and fragmentation of the nuclear chromatin. In normal viable cells, phospholipids are asymmetrically distributed between inner and outer leaflets of the plasma membrane with phosphatidylcholine and sphingomyelin exposed on the external leaflet of the lipid bilayer, and phosphatidylserine predominantly observed on the inner surface facing the cytosol.

Exposure of PS on the external surface of the cell membrane has been reported in apoptotic cells, this occurs in the early phases of apoptotic cell death during which the cell membrane remains intact. In leukocyte apoptosis, PS on the outer surface of the cell marks the cell for recognition and phagocytosis by macrophages. The human vascular anticoagulant, annexin V, is a 35-36 kDa Ca<sup>2+</sup> dependent phospholipid binding protein that has a high affinity for PS, and shows minimal binding to phosphatidylcholine and sphingomyelin. Changes in PS asymmetry, which is analyzed by measuring annexin V binding to the cell membrane, were detected before morphological changes associated with apoptosis have occurred and before membrane integrity has been lost. Annexin V labeled with FITC (green fluorescence) can identify and quantitate apoptotic cells on a single-cell basis by flow cytometry. Staining cells simultaneously with Annexin V-FITC and the non-vital dye propidium iodide (red fluorescence) allows (bivariate analysis) the discrimination of intact cells (Annexin V-FITC negative, PI negative), early apoptotic (Annexin V-FITC positive, PI negative) and late apoptotic or necrotic cells (Annexin V-FITC positive, PI positive).

## REFERENCES:

- Koopman, G., Reutelingsperger, C. P., Kuijten, G. A. M., Keehnen, R.M.J., Pals, S. T., and van Oers, M. H. J. 1994. Annexin V for flow cytometric detection of phosphatidylserine expression on B cells undergoing apoptosis. *Blood* 84: 1415.
- Homburg, C. H., de Haas, M., von dem Borne, A. E., Verhoeven, A. J., Reutelingsperger, C. P., and Roos, D. 1995. Human neutrophils lose their surface Fc gamma RIII and acquire Annexin V binding sites during apoptosis in vitro. *Blood* 85: 532.
- Vermes, I., Haanen, C., Steffens-Nakken, H., and Reutelingsperger, C. 1995. A novel assay for apoptosis - flow cytometric detection of phosphatidylserine expression on early apoptotic cells using fluorescein labelled Annexin V. *J. Immunol. Meth.* 184: 39.
- Fadok, V. A., Voelker, D. R., Campbell, P. A., Cohen, J. J., Bratton, D. L., and Henson, P. M. 1992. Exposure of phosphatidylserine on the surface of apoptotic lymphocytes triggers specific recognition and removal by macrophages. *J. Immunol.* 148: 2207.
- Darzynkiewicz Z, Bedner E, Traganos F. 2001. Difficulties and pitfalls in analysis of apoptosis. *Methods Cell Biol.* 2001;63:527-46.

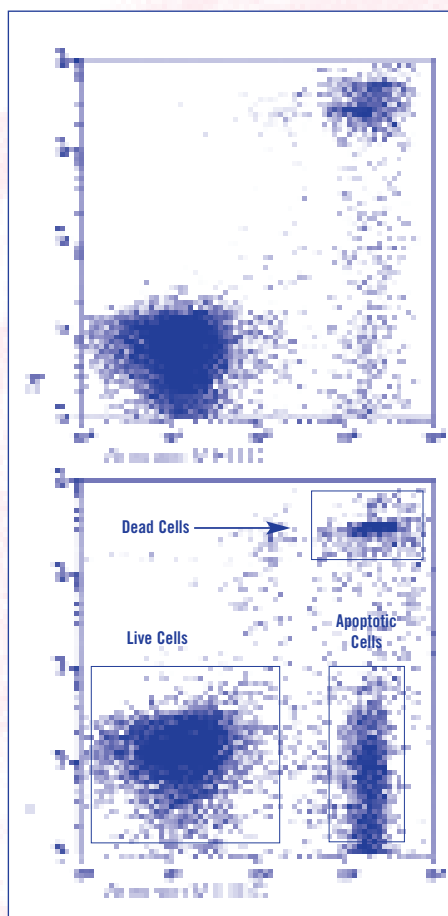


Figure 1. Jurkat cells (T-cell leukemia, human) treated with 6  $\mu$ M camptothecin for four hours (bottom panel) or untreated (top panel).

ANNEXIN V	TEST	Materials provided:	Code No.
ANNEXIN V FITC	200	Annexin V-FITC, 200 tests, recommended for use in flow cytometry.	ANNEXINVFITC
ANNEXIN V FITC APOPTOSIS DETECTION KIT	100	Annexin V-FITC, 100 tests, recommended for use in flow cytometry. Propidium Iodide Staining Solution 1 ml in PBS (pH 7,4) Annexin V Binding Buffer, 10 X, 50 ml. 0,1M HEPES/NaOH (pH 7,4) 1,4 M NaCl, 25 mM CaCl <sub>2</sub> .	ANNEXINVKIT

reagents against human antigens

PRICE LIST SINGLE MARKER & CONTROLS							
ANTIBODY	Clone	Isotype	Code No. PURE Price*/0,1 mg	Code No. FITC Price*/100 Tests	Code No. PE Price*/100 Tests	Code No. APC Price*/100 Tests	Code No. PECy5 Price*/100 Tests
CD1a	MCD1	IgG1	CD1aPURMCD1 182,00 €	CD1aFITCMCD1 292,00 €	CD1aPEMCD1 404,00 €	CD1aAPCMCD1 377,00 €	
CD1a	HI49	IgG1	CD1aPURHI49 182,00 €	CD1aFITCHI49 243,00 €	CD1aPEHI49 289,00 €	CD1aAPCHI49 289,00 €	CD1aPECY5HI49 358,00 €
CD2	TP1/31	IgG1	CD2PURTP1/31 182,00 €	CD2FITCTP1/31 243,00 €	CD2PETP1/31 289,00 €	CD2APCTP1/31 289,00 €	
CD2	HIT11	IgG1	CD2PURHIT11 182,00 €	CD2FITCHIT11 243,00 €	CD2PEHIT11 289,00 €	CD2APCHIT11 289,00 €	CD2PECY5HIT11 358,00 €
CD3	33-2A3	IgG2a	CD3PUR33-2A3 182,00 €	CD3FITC33-2A3 243,00 €	CD3PE33-2A3 289,00 €	CD3APC33-2A3 289,00 €	
CD4	HP2/6	IgG2a	CD4PURHP2/6 182,00 €	CD4FITCHP2/6 243,00 €	CD4PEHP2/6 289,00 €	CD4APCHP2/6 289,00 €	
CD5	33-1C5	IgG2a	CD5PUR33-1C5 182,00 €	CD5FITC33-1C5 243,00 €	CD5PE33-1C5 289,00 €	CD5APC33-1C5 289,00 €	
CD6	MAE-1C10	IgG1	CD6PURMAE-1C10 182,00 €	CD6FITCMAE-1C10 243,00 €	CD6PEMAE-1C10 289,00 €	CD6APCMAE-1C10 289,00 €	
CD7	HIT7	IgG1	CD7PURHIT7 182,00 €	CD7FITCHIT7 243,00 €	CD7PEHIT7 289,00 €	CD7APCHIT7 289,00 €	CD7PECY5HIT7 358,00 €
CD8	143-44	IgG1	CD8PUR143-44 182,00 €	CD8FITC143-44 243,00 €	CD8PE143-44 289,00 €	CD8APC143-44 289,00 €	
CD9	VJ1/20	IgG2a	CD9PURVJ1/20 182,00 €	CD9FITCVJ1/20 243,00 €	CD9PEVJ1/20 289,00 €	CD9APCVJ1/20 289,00 €	
CD10	HI10a	IgG1	CD10PURHI10a 182,00 €	CD10FITCHI10a 243,00 €	CD10PEHI10a 289,00 €	CD10APCHI10a 289,00 €	CD10PECY5HI10a 358,00 €
CD11a	TP1/40	IgG1	CD11aPURTP1/40 182,00 €	CD11aFITCTP1/40 243,00 €	CD11aPETP1/40 289,00 €	CD11aAPCTP1/40 289,00 €	
CD11b	DCIS1/18	IgG2a	CD11bPURDCIS1/18 182,00 €	CD11bFITCDCIS1/18 243,00 €	CD11bPEDCIS1/18 289,00 €	CD11bAPCDCIS1/18 289,00 €	
CD11c	HC1/1	IgG1	CD11cPURHC1/1 182,00 €	CD11cFITCHC1/1 243,00 €	CD11cPEHC1/1 289,00 €	CD11cAPCHC1/1 289,00 €	
CD13	22A5	IgG2a	CD13PUR22A5 182,00 €	CD13FITC22A5 292,00 €	CD13PE22A5 404,00 €	CD13APC22A5 377,00 €	
CD13	WM15	IgG1	CD13PURWM15 182,00 €	CD13FITCWM15 243,00 €	CD13PEWM15 289,00 €	CD13APCWM15 289,00 €	CD13PECY5WM15 358,00 €
CD14	47-3D6	IgG1	CD14PUR47-3D6 182,00 €	CD14FITC47-3D6 243,00 €	CD14PE47-3D6 289,00 €	CD14APC47-3D6 289,00 €	
CD15	BRA-4F1	IgM	CD15PURBRA-4F1 182,00 €	CD15FITCBRA-4F1 275,00 €			
CD15	HI98	IgM	CD15PURHI98 182,00 €	CD15FITCHI98 243,00 €	CD15PEHI98 289,00 €	CD15APCHI98 289,00 €	CD15PECY5HI98 358,00 €
CD16	GRM1	IgG1	CD16PURGRM1 182,00 €	CD16FITCGRM1 243,00 €	CD16PEGRM1 289,00 €	CD16APCGRM1 289,00 €	
CD17	HIP10	IgM	CD17PURHIP10 182,00 €	CD17FITCHIP10 243,00 €	CD17PEHIP10 289,00 €	CD17APCHIP10 289,00 €	CD17PECY5HIP10 358,00 €

## PRICE LIST SINGLE MARKER &amp; CONTROLS

ANTIBODY	Clone	Isotype	Code No. PURE Price*/0,1 mg	Code No. FITC Price*/100 Tests	Code No. PE Price*/100 Tests	Code No. APC Price*/100 Tests	Code No. PECy5 Price*/100 Tests
CD18	LIA3/2	IgG1	CD18PURLIA3/2 182,00 €	CD18FITCLIA3/2 243,00 €	CD18PELIA3/2 289,00 €	CD18APCLIA3/2 289,00 €	
CD19	A3-B1	IgG2a	CD19PURA3-B1 182,00 €	CD19FITCA3-B1 243,00 €	CD19PEA3-B1 289,00 €	CD19APCA3-B1 289,00 €	
CD20	HI47	IgG3	CD20PURHI47 182,00 €	CD20FITCHI47 243,00 €	CD20PEHI47 289,00 €	CD20APCHI47 289,00 €	
CD20	BC1	IgM	CD20PURBC1 182,00 €	CD20FITCBC1 243,00 €			
CD21	B-ly4	IgG1	CD21PURB-ly4 182,00 €	CD21FITCB-ly4 292,00 €	CD21PEB-ly4 404,00 €	CD21APCB-ly4 377,00 €	
CD21	HI21a	IgG2a	CD21PURHI21a 182,00 €	CD21FITCHI21a 243,00 €	CD21PEHI21a 289,00 €	CD21APCHI21a 289,00 €	CD21PECY5HI21a 358,00 €
CD22	B-ly8	IgG1	CD22PURB-ly8 182,00 €	CD22FITCB-ly8 292,00 €	CD22PEB-ly8 404,00 €	CD22APCB-ly8 377,00 €	
CD22	HIB22	IgG1	CD22PURHIB22 182,00 €	CD22FITCHIB22 243,00 €	CD22PEHIB22 289,00 €	CD22APCHIB22 289,00 €	CD22PECY5HIB22 358,00 €
CD23	LT-4F1	IgG1	CD23PURLT-4F1 182,00 €	CD23FITCLT-4F1 243,00 €	CD23PELT-4F1 289,00 €	CD23APCLT-4F1 289,00 €	CD23PECY5LT-4F1 358,00 €
CD24	HI45	IgG1	CD24PURHI45 182,00 €	CD24FITCHI45 243,00 €	CD24PEHI45 289,00 €	CD24APCHI45 289,00 €	CD24PECY5HI45 358,00 €
CD25	TP1/6	IgG2b	CD25PURTP1/6 182,00 €	CD25FITCTP1/6 243,00 €	CD25PETP1/6 289,00 €	CD25APCTP1/6 289,00 €	
CD26	TP1/19	IgG2b	CD26PURTP1/19 182,00 €	CD26FITCTP1/19 243,00 €	CD26PETP1/19 289,00 €	CD26APCTP1/19 289,00 €	
CD29	VJ/14	IgG2b	CD29PURVJ/14 182,00 €	CD29FITCVJ/14 243,00 €	CD29PEVJ/14 289,00 €	CD29APCVJ/14 289,00 €	
CD31	TP1/15	IgG2a	CD31PURTP1/15 182,00 €	CD31FITCTP1/15 243,00 €	CD31PETP1/15 289,00 €	CD31APCTP1/15 289,00 €	
CD33	WM53	IgG1	CD33PURWM53 182,00 €	CD33FITCWM53 292,00 €	CD33PEWM53 404,00 €	CD33APCWM53 377,00 €	
CD33	HIM3-4	IgG1	CD33PURHIM3-4 182,00 €	CD33FITCHIM3-4 243,00 €	CD33PEHIM3-4 289,00 €	CD33APCHIM3-4 289,00 €	CD33PECY5HIM3-4 358,00 €
CD34	581	IgG1	CD34PUR581 182,00 €	CD34FITC581 275,00 €	CD34PE581 379,00 €	CD34APC581 358,00 €	
CD34	HI273	IgG2b	CD34PURHI273 182,00 €	CD34FITCHI273 243,00 €	CD34PEHI273 289,00 €	CD34APCHI273 289,00 €	CD34PECY5HI273 358,00 €
CD36	SMO	IgM	CD36PURSMO 182,00 €	CD36FITCSMO 292,00 €			
CD38	GR7A4	IgG1	CD38PURGR7A4 182,00 €	CD38FITCGR7A4 243,00 €	CD38PEGR7A4 289,00 €	CD38APCGR7A4 289,00 €	
CD40	HI40a	IgG1	CD40PURHI40a 182,00 €	CD40FITCHI40a 243,00 €	CD40PEHI40a 289,00 €	CD40APCHI40a 289,00 €	CD40PECY5HI40a 358,00 €
CD41	NaM12-6E1	IgG1	CD41PURNaM12-6E1 182,00 €	CD41FITCNaM12-6E1 292,00 €	CD41PENaM12-6E1 404,00 €	CD41APCNaM12-6E1 377,00 €	

\* Preise inkl. Versand, zzgl. MwSt.

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PRICE LIST SINGLE MARKER & CONTROLS							
ANTIBODY	Clone	Isotype	Code No. PURE Price*/0,1 mg	Code No. FITC Price*/100 Tests	Code No. PE Price*/100 Tests	Code No. APC Price*/100 Tests	Code No. PECy5 Price*/100 Tests
CD41	HIP8	IgG1	CD41PURHIP8 182,00 €	CD41FITCHIP8 243,00 €	CD41PEHIP8 289,00 €	CD41APCHIP8 289,00 €	CD41PECY5HIP8 358,00 €
CD42a	GR-P	IgG2a	CD42aPURGR-P 182,00 €	CD42aFITCGR-P 243,00 €	CD42aPEGR-P 289,00 €	CD42aAPCGR-P 289,00 €	
CD42b	HIP1	IgG1	CD42bPURHIP1 182,00 €	CD42bFITCHIP1 243,00 €	CD42bPEHIP1 289,00 €	CD42bAPCHIP1 289,00 €	CD42bPECY5HIP1 358,00 €
CD43	TP1/36	IgG1	CD43PURTP1/36 182,00 €	CD43FITCTP1/36 243,00 €	CD43PETP1/36 289,00 €	CD43APCTP1/36 289,00 €	
CD44	HP2/9	IgG1	CD44PURHP2/9 182,00 €	CD44FITCHP2/9 243,00 €	CD44PEHP2/9 289,00 €	CD44APCHP2/9 289,00 €	
CD45	D3/9	IgG1	CD45PURD3/9 182,00 €	CD45FITCD3/9 243,00 €	CD45PED3/9 289,00 €	CD45APCD3/9 289,00 €	
CD45RA	RP1/11,1	IgG1	CD45RAPURRP1/11,1 182,00 €	CD45RAFITCRP1/11,1 243,00 €	CD45RAPERP1/11,1 289,00 €	CD45RAAPCRP1/11,1 289,00 €	
CD45RB	MC5/2	IgG1	CD45RBPURMC5/2 182,00 €	CD45RBFITCMC5/2 243,00 €	CD45RBP EMC5/2 289,00 €	CD45RBAPCMC5/2 289,00 €	
CD45RC	RP1/12	IgG1	CD45RCPURRP1/12 182,00 €	CD45RCFITCRP1/12 243,00 €	CD45RCPERP1/12 289,00 €	CD45RCAPCRP1/12 289,00 €	
CD45RO	UCHL1	IgG2a	CD45ROPURUCHL1 182,00 €	CD45ROFITCUCHL1 275,00 €	CD45ROPEUCHL1 379,00 €	CD45ROAPCUCHL1 358,00 €	
CD49b	TEA1/41	IgG1	CD49bPURTEA1/41 182,00 €	CD49bFITCTEA1/41 243,00 €	CD49bPETEA1/41 289,00 €	CD49bAPCTEA1/41 289,00 €	
CD49c	VJ1/6	IgG1	CD49cPURVJ1/6 182,00 €	CD49cFITCVJ1/6 243,00 €	CD49cPEVJ1/6 289,00 €	CD49cAPCVJ1/6 289,00 €	
CD49d	ALC1/1	IgG1	CD49dPURALC1/1 182,00 €	CD49dFITCALC1/1 243,00 €	CD49dPEALC1/1 289,00 €	CD49dAPCALC1/1 289,00 €	
CD52	HI186	IgG2b	CD52PURHI186 182,00 €	CD52FITCHI186 243,00 €	CD52PEHI186 289,00 €	CD52APCHI186 289,00 €	CD52PECY5HI186 358,00 €
CD53	HI29	IgG1	CD53PURHI29 182,00 €	CD53FITCHI29 243,00 €	CD53PEHI29 289,00 €	CD53APCHI29 289,00 €	CD53PECY5HI29 358,00 €
CD55	NaM16-4D3	IgG1	CD55PURNaM16-4D3 182,00 €	CD55FITCNaM16-4D3 275,00 €	CD55PENaM16-4D3 379,00 €	CD55APCNaM16-4D3 358,00 €	
CD56	MOC-1	IgG1	CD56PURMOC-1 182,00 €	CD56FITCMOC-1 275,00 €	CD56PEMOC-1 379,00 €	CD56APCMOC-1 358,00 €	
CD56	B-A19	IgG1	CD56PURB-A19 182,00 €	CD56FITCB-A19 243,00 €	CD56PEB-A19 289,00 €	CD56APCB-A19 289,00 €	CD56PECY5B-A19 358,00 €
CD57	HI57a	IgM	CD57PURHI57a 182,00 €	CD57FITCHI57a 243,00 €	CD57PEHI57a 289,00 €	CD57APCHI57a 289,00 €	CD57PECY5HI57a 358,00 €
CD58	HI58a	IgG1	CD58PURHI58a 182,00 €	CD58FITCHI58a 243,00 €	CD58PEHI58a 289,00 €	CD58APCHI58a 289,00 €	CD58PECY5HI58a 358,00 €
CD59	VJ,1/2,2	IgG2a	CD59PURVJ,1/2,2 182,00 €	CD59FITCVJ,1/2,2 243,00 €	CD59PEVJ,1/2,2 289,00 €	CD59APCVJ,1/2,2 289,00 €	
CD61	NaM28-7D6	IgG1	CD61PURNaM28-7D6 182,00 €	CD61FITCNaM28-7D6 292,00 €	CD61PENaM28-7D6 404,00 €	CD61APCNaM28-7D6 377,00 €	

## PRICE LIST SINGLE MARKER &amp; CONTROLS

ANTIBODY	Clone	Isotype	Code No. PURE Price*/0,1 mg	Code No. FITC Price*/100 Tests	Code No. PE Price*/100 Tests	Code No. APC Price*/100 Tests	Code No. PECy5 Price*/100 Tests
CD61	PM6/13	IgG1	CD61PURPM6/13 182,00 €	CD61FITCPM6/13 243,00 €	CD61PEPM6/13 289,00 €	CD61APCPM6/13 289,00 €	CD61PECY5PM6/13 358,00 €
CD62P	P.seK02,22	IgG2b	CD62PPURP.seK02,22 182,00 €	CD62PFITCP.seK02,22 243,00 €	CD62PPEP.seK02,22 289,00 €	CD62PAPCP.seK02,22 289,00 €	
CD62E	TEA2/1	IgG2b	CD62EPURTEA2/1 182,00 €	CD62EFITCTEA2/1 243,00 €	CD62EPETEA2/1 289,00 €	CD62EAPCTEA2/1 289,00 €	
CD62L	HI62L	IgG2a	CD62LPURHI62L 182,00 €	CD62LFITCHI62L 243,00 €	CD62LPEHI62L 289,00 €	CD62LAPCHI62L 289,00 €	CD62LPECY5HI62L 358,00 €
CD63	TEA3/18	IgG1	CD63PURTEA3/18 182,00 €	CD63FITCTEA3/18 243,00 €	CD63PETEA3/18 289,00 €	CD63APCTEA3/18 289,00 €	
CD64	10,1	IgG1	CD64PUR10,1 182,00 €	CD64FITC10,1 243,00 €	CD64PE10,1 289,00 €	CD64APC10,1 289,00 €	CD64PECY510,1 358,00 €
CD69	HP-4B3	IgG1	CD69PURHP-4B3 182,00 €	CD69FITCHP-4B3 243,00 €	CD69PEHP-4B3 289,00 €	CD69APCHP-4B3 289,00 €	
CD71	FG2/12	IgG1	CD71PURFG2/12 182,00 €	CD71FITCFG2/12 243,00 €	CD71PEFG2/12 289,00 €	CD71APCFG2/12 289,00 €	
CD79a	ZL7-4	IgG1	CD79aPURZL7-4 182,00 €	CD79aFITCZL7-4 243,00 €	CD79aPEZL7-4 289,00 €	CD79aAPCZL7-4 289,00 €	CD79aPECY5ZL7-4 358,00 €
CD94	HP-3D9	IgG1	CD94PURHP-3D9 182,00 €	CD94FITCHP-3D9 243,00 €	CD94PEHP-3D9 289,00 €	CD94APCHP-3D9 289,00 €	
CD98	FG1/8	IgG1	CD98PURFG1/8 182,00 €	CD98FITCFG1/8 243,00 €	CD98PEFG1/8 289,00 €	CD98APCFG1/8 289,00 €	
CD99	HI156	IgG2a	CD99PURHI156 182,00 €	CD99FITCHI156 243,00 €	CD99PEHI156 289,00 €	CD99APCHI156 289,00 €	CD99PECY5HI156 358,00 €
CD105	2H6F11	IgG1	CD105PUR2H6F11 182,00 €	CD105FITC2H6F11 243,00 €	CD105PE2H6F11 289,00 €	CD105APC2H6F11 289,00 €	
CD147	VJ1/5	IgG1	CD147PURVJ1/5 182,00 €	CD147FITCVJ1/5 243,00 €	CD147PEVJ1/5 289,00 €	CD147APCVJ1/5 289,00 €	
CD235a	NaM10-6GH4	IgG2a	CD235aPURNaM10-6GH4 182,00 €	CD235aFITCNaM10-6GH4 292,00 €	CD235aPENaM10-6GH4 404,00 €	CD235aAPCNaM10-6GH4 377,00 €	
CD235a	HI264	IgG2a	CD235aPURHI264 182,00 €	CD235aFITCHI264 243,00 €	CD235aPEHI264 289,00 €	CD235aAPCHI264 289,00 €	CD235aPECY5HI264 358,00 €
Anti-BrdU	Mobu-1	IgG1	BrdU PURMobu-1 182,00 €	BrdU FITCMobu-1 292,00 €	BrdU PEMobu-1 404,00 €	BrdU APCMobu-1 377,00 €	
HLA-DP	HI43	IgG1	HLA-DPPURHI43 182,00 €	HLA-DPFITCHI43 243,00 €	HLA-DPPEHI43 289,00 €	HLA-DPAPCHI43 289,00 €	HLA-DPPECY5HI43 358,00 €
HLA-DQ	MCDQ	IgG2a	HLA-DQPURMCDQ 182,00 €	HLA-DQFITCMCDQ 292,00 €	HLA-DQPEMCDQ 404,00 €	HLA-DQAPCMCDQ 377,00 €	
HLA-DQ	HI118	IgG1	HLA-DQPURHI118 182,00 €	HLA-DQFITCHI118 243,00 €	HLA-DQPEHI118 289,00 €	HLA-DQAPCHI118 289,00 €	HLA-DQPECY5HI118 358,00 €
HLA-DR	BRA30	IgG2a	HLA-DRPURBRA30 182,00 €	HLA-DRFITCBRA30 292,00 €	HLA-DRPEBRA30 404,00 €	HLA-DRAPCBRA30 377,00 €	
HLA-DR	HI159	IgG2b	HLA-DRPURHI159 182,00 €	HLA-DRFITCHI159 243,00 €	HLA-DRPEHI159 289,00 €	HLA-DRAPCHI159 289,00 €	HLA-DRPECY5HI159 358,00 €

PRICE LIST SINGLE MARKER & CONTROLS							
ANTIBODY	Clone	Isotype	Code No. PURE Price*/0,1 mg	Code No. FITC Price*/100 Tests	Code No. PE Price*/100 Tests	Code No. APC Price*/100 Tests	Code No. PECy5 Price*/100 Tests
Kappa	HIgk	IgG1	KappaPURHIgk	KappaFITCHIgk	KappaPEHIgk	KappaAPCHIgk	KappaPECY5HIgk
			182,00 €	243,00 €	289,00 €	289,00 €	358,00 €
Lambda	HIgl	IgG3	LambdaPURHIgl	LambdaFITCHIgl	LambdaPEHIgl	LambdaAPCHIgl	LambdaPECY5HIgl
			182,00 €	243,00 €	289,00 €	289,00 €	358,00 €
MPO	266.6K2	IgG1	MPOPUR266.6K2	MPOFITC266.6K2	MPOPE266.6K2	MPOAPC266.6K2	
			182,00 €	292,00 €	404,00 €	377,00 €	
p53	BP53.12	IgG2a	p53PURBP53.12	p53FITCBP53.12	p53PEBP53.12	p53APCBP53.12	
			182,00 €	275,00 €	379,00 €	358,00 €	

PRICE LIST SINGLE ISOTYPE CONTROLS							
ANTIBODY	Clone	Isotype	Code No. PURE Price*/0,1 mg	Code No. FITC Price*/100 Tests	Code No. PE Price*/100 Tests	Code No. APC Price*/100 Tests	Code No. PECy5 Price*/100 Tests
Goat	Polyclonal	Ig	GOATPOLYPUREISOTC	GOATPOLYFITCISOTC			
			118,00 €	168,00 €			
Rabbit	Polyclonal	Ig	RABPOLYPUREISOTC	RABPOLYFITCISOTC			
			118,00 €	168,00 €			
Mouse	MCG1	IgG1	MOUSISTCONPUREIGG1	MOUSISTCONFITCIGG1	MOUSISTCONPEIGG1	MOUSISTCONAPCIGG1	MOUSISTCONPC5IGG1
			118,00 €	168,00 €	198,00 €	198,00 €	198,00 €
Mouse	MCG2a	IgG2a	MOUSISTCONPUREIGG2A	MOUSISTCONFITCIGG2A	MOUSISTCONPEIGG2A	MOUSISTCONAPCIGG2A	MOUSISTCONPC5IGG2A
			118,00 €	168,00 €	198,00 €	198,00 €	198,00 €
Mouse	MCG2b	IgG2b	MOUSISTCONPUREIGG2B	MOUSISTCONFITCIGG2B	MOUSISTCONPEIGG2B	MOUSISTCONAPCIGG2B	MOUSISTCONPC5IGG2B
			118,00 €	168,00 €	198,00 €	198,00 €	198,00 €
Mouse	MCGM	IgM	MOUSISTCONPUREIGM	MOUSISTCONFITCIGM	MOUSISTCONPEIGM	MOUSISTCONAPCIGM	MOUSISTCONPC5IGM
			118,00 €	168,00 €	198,00 €	198,00 €	198,00 €

					PRICE LIST DUAL COLOUR		
ANTIBODIES FITC / PE	Clones		Isotypes		Code No.	Price*/50 Tests	
	FITC	PE	FITC	PE			
CD3 / CD4	33-2A3	HP2/6	IgG2a	IgG2a	CD3FITCCD4PE	224,00 €	
CD3 / CD8	33-2A3	143-44	IgG2a	IgG1	CD3FITCCD8PE	224,00 €	
CD3 / CD19	33-2A3	A3-B1	IgG2a	IgG2a	CD3FITCCD19PE	224,00 €	
CD3 / HLA-DR	33-2A3	BRA30	IgG2a	IgG2a	CD3FITCHLA.DRPE	275,00 €	
CD4 / CD8	HP2/6	143-44	IgG2a	IgG1	CD4FITCCD8PE	224,00 €	
CD4 / CD45RA	HP2/6	RP1/11.1	IgG2a	IgG1	CD4FITCCD45RAPE	224,00 €	
CD5 / CD19	33-1C5	A3-B1	IgG2a	IgG2a	CD5FITCCD19PE	224,00 €	
CD5 / CD20	33-1C5	B-ly1	IgG2a	IgG1	CD5FITCCD20PE	275,00 €	
CD8 / CD4	143-44	HP2/6	IgG1	IgG2a	CD8FITCCD4PE	224,00 €	
CD8 / CD38	143-44	GR7A4	IgG1	IgG1	CD8FITCCD38PE	224,00 €	
CD8 / CD56	143-44	B-A19	IgG1	IgG1	CD8FITCCD56PE	275,00 €	
CD45 / CD14	B3/9	47-3D6	IgG1	IgG1	CD45FITCCD14PE	224,00 €	
CD45RA / CD4	RP1/11.1	HP2/6	IgG1	IgG2a	CD45RAFITCCD4PE	224,00 €	
CD4 / CD45RO	HP2/6	UCHL1	IgG2a	IgG2a	CD4FITCCD45ROPE	275,00 €	
KAPPA / CD19	HIgk	A3-B1	IgG1	IgG2a	KAPPAFITCCD19PE	275,00 €	
KAPPA / LAMBDA	HIgk	HIgl	IgG1	IgG3	KAPPAFITCLAMBDAPE	275,00 €	
HLA-DR / CD3	HI159	33-2A3	IgG2b	IgG2a	HLADRFITCCD3PE	275,00 €	
HLA-DR / CD8	HI159	143-44	IgG2b	IgG1	HLADRFITCCD8PE	275,00 €	
LAMBDA / CD19	HIgl	A3-B1	IgG3	IgG2a	LAMDAFITCCD19PE	275,00 €	

Dual, Triple or Four Colour combinations based on the primary antibodies list are available upon request.

					PRICE LIST DUAL COLOUR ISOTYPE CONTROLS		
ANTIBODIES FITC / PE	Clones		Isotypes		Code No.	Price*/50 Tests	
	FITC	PE	FITC	PE			
Mouse IgG1 / Mouse IgG1	MCG1	MCG1	IgG1	IgG1	MOUSISTCONFITCIGG1PEIGG1	224,00 €	
Mouse IgG1 / Mouse IgG2a	MCG1	MCG2a	IgG1	IgG2a	MOUSISTCONFITCIGG1PEIGG2A	224,00 €	
Mouse IgG2b / Mouse IgG1	MCG2b	MCG1	IgG2b	IgG1	MOUSISTCONFITCIGG2BPEIGG1	224,00 €	
Mouse IgG2a / Mouse IgG1	MCG2a	MCG1	IgG2a	IgG1	MOUSISTCONFITCIGG2APEIGG1	224,00 €	

Dual, Triple or Four Colour combinations based on the primary antibodies list are available upon request.

**PRICE LIST TRIPLE COLOUR**

ANTIBODIES FITC / PE / PECy5	Clones			Isotypes			Code No.	Price*/50 Tests
	FITC	PE	PECy5	FITC	PE	PECy5		
CD2 / CD34 / CD5	TP1/31	581	33-1C6	IgG1	IgG1	IgG2a	CD2FITCCD34PECD5PC5	335,00 €
CD3 / CD4 / CD45	33-2A3	HP2/6	D3/9	IgG2a	IgG2a	IgG1	CD3FITCCD4PECD45PC5	335,00 €
CD3 / CD8 / CD45	33-2A3	143-44	D3/9	IgG2a	IgG1	IgG1	CD3FITCCD8PECD45PC5	335,00 €
CD3 / CD16 / CD45	33-2A3	GRM1	D3/9	IgG2a	IgG1	IgG1	CD3FITCCD16PECD45PC5	335,00 €
CD3 / CD19 / CD45	33-2A3	A3-B1	D3/9	IgG2a	IgG2a	IgG1	CD3FITCCD19PECD45PC5	335,00 €
CD4 / CD8 / CD3	HP2/6	143-44	33-2A3	IgG2a	IgG1	IgG2a	CD4FITCCD8PECD3PC5	335,00 €
CD5 / CD10 / CD19	33-1C5	HI10a	A3-B1	IgG2a	IgG1	IgG2a	CD5FITCCD10PECD19PC5	335,00 €
CD16 / CD56 / CD3	GRM1	B-A19	22-2A3	IgG1	IgG1	IgG2a	CD16FITCCD56PECD3PC5	335,00 €
CD19 / CD56 / CD3	A3-B1	B-A19	22-2A3	IgG2a	IgG1	IgG2a	CD19FITCCD56PECD3PC5	335,00 €
KAPPA / LAMBDA / CD19	HIgk	HIgl	A3-B1	IgG1	IgG3	IgG2a	KAPPAFITCLAMBDAPECD19PC5	335,00 €

Dual, Triple or Four Colour combinations based on the primary antibodies list are available upon request.

**PRICE LIST TRIPLE COLOUR ISOTYPE CONTROLS**

ANTIBODIES FITC / PE / PECy5	Clones			Isotypes			Code No.	Price*/50 Tests
	FITC	PE	PECy5	FITC	PE	PECy5		
Mouse IgG1 / Mouse IgG1 / Mouse IgG2a	MCG1	MCG1	MCG2a	IgG1	IgG1	IgG2a	MOUSISTCONFITCIGG1PEIGG1PC5IGG2A	295,00 €
Mouse IgG2a / Mouse IgG2a / Mouse IgG1	MCG2a	MCG2a	MCG1	IgG2a	IgG2a	IgG1	MOUSISTCONFITCIGG2APEIGG2APC5IGG1	295,00 €
Mouse IgG2a / Mouse IgG1 / Mouse IgG1	MCG2a	MCG1	MCG1	IgG2a	IgG1	IgG1	MOUSISTCONFITCIGG2APEIGG1PC5IGG1	295,00 €

Dual, Triple or Four Colour combinations based on the primary antibodies list are available upon request.

**PRICE LIST APOPTOSIS DETECTION**

KIT	Description	Tests	Code No.	Price*
Annexin V FITC	Recombinant human Annexin V labeled with FITC	200	ANNEXINVFITC	298,00 €
Annexin V FITC Apoptosis Detection Kit	Recombinant human Annexin V labeled with FITC and Propidium iodide	100	ANNEXINKIT	260,00 €