

ANTIBODIES FOR FLOW CYTOMETRY

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ANTIBODIES FOR FLOW CYTOMETRY



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SETTING THE BENCHMARK FOR ANTIBODIES IN FLOW CYTOMETRY

Flow cytometry is a powerful technique to measure properties of cells. In this method, microfluidics is used to flow cells one-by-one through lasers. The scattering of light itself can be used to distinguish different immune cells. However, when cells are stained with fluorescently tagged antibodies, the resolution of cell identity and characterization is even greater. The insights from this technology have led to breakthroughs in Immuno-oncology and infectious disease research.

Proteintech has set the benchmark for antibodies since 2003 and leads the industry in target coverage of antibodies with genetic knockdown and knockout validation. In flow cytometry, we are again focusing on providing the highest quality reagents:

- Gold-standard clones for CD markers and other cell surface proteins, conjugated to popular dyes to conveniently fit in your panel.
- Every antibody is tested in-house with our product-specific protocols that are available online.
- Multiple fluorophores available for most targets including APC, FITC, PE, and high-performing CoraLite® dyes

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CD45 – Leukocyte common antigen- Endothelial cells

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FEATURED PRODUCTS

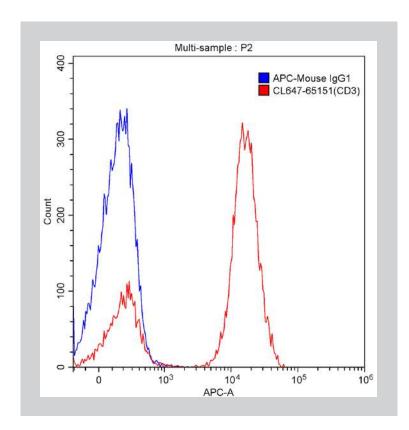
CoraLite® 647-conjugated Anti-Human CD3

Cat. No.: CL647-65151

Clone: UCHT1

Host & ISOTYPE: Mouse IgG1 **Conjugation:** CoraLite® 647

CD3 is a multimeric protein associated with the T-cell receptor (TCR) and forms a complex involved in antigen recognition and signal transduction (PMID: 15885124). CD3 is composed of CD3 γ , δ , ϵ , and ζ chains (PMID: 1826255). It is expressed by thymocytes in a developmentally regulated manner, T cells, and some NK cells (PMID: 3289580). The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction (PMID: 11985657).

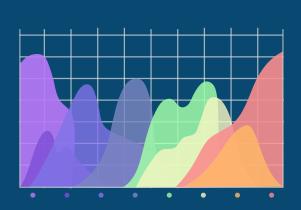


Human peripheral blood lymphocytes were surface stained with 5.00 ul/test CoraLite®647-conjugated Anti-Human CD3 (CL647-65151, Clone:UCHT1) (red) or control antibody (blue).

CARRIER-FREE AND CUSTOM ORDERS BY REQUEST

Proteintech is happy to offer all of its antibodies in bulk quantities or custom formulations such as glycerol-free, azide-free buffer.

Visit ptglab.com/promotions/bulk-order-promotion to learn more.



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APC Anti-Human PD-1/CD279

Cat. No.: APC-65119

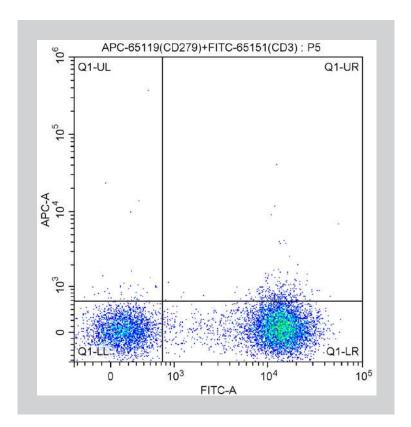
Clone: J110

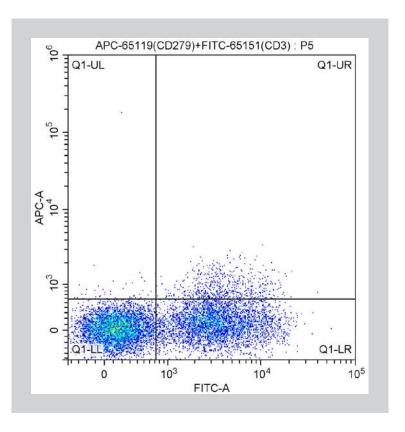
Host & Isotype: Mouse IgG1

Conjugation: APC

Programmed cell death 1 (PD-1, also known as CD279) is an immunoinhibitory receptor that belongs to the CD28/CTLA-4 subfamily of the Ig superfamily. It is a type I transmembrane protein composed of one Ig superfamily domain, a stalk, a transmembrane domain, and an intracellular domain containing an immunoreceptor tyrosinebased inhibitory motif (ITIM) as well as an immunoreceptor tyrosine-based switch motif (ITSM) (PMID: 18173375). PD-1 is expressed during thymic development and is induced in a variety of hematopoietic cells in the periphery by antigen receptor signaling and cytokines (PMID: 20636820). Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function (PMID: 19426218). It is critical for the regulation of T cell function during immunity and tolerance. Blockade of PD-1 can overcome immune resistance and also has been shown to have antitumor activity (PMID: 22658127; 23169436).

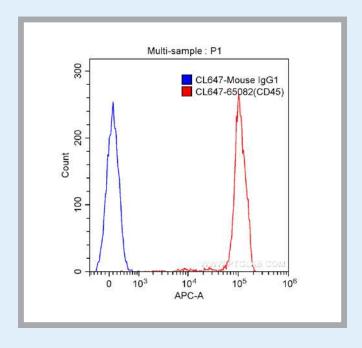
Figure legend: Human peripheral blood lymphocytes either untreated (top) or treated with PHA (5 µg/mL, overnight) (bottom) were surface stained with 0.20 ug APC-Anti-Human CD279 (PD-1) (APC-65119, clone J110) and 0.20 ug FITC-Anti-Human CD3 (FITC-65151, clone UCHT1).





PRODUCTS BY CELL TYPE

CD45 – Leukocyte common antigen



Anti-Human CD45

Cat. No.: CL647-65082

Clone: 2D1

Host & Isotype: Mouse IgG1 **Conjugation:** CoraLite® 647

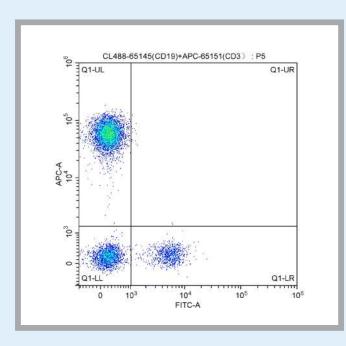
1X10^6 human peripheral blood lymphocytes were surface stained with 5.00 ul/test CoraLite®647-conjugated Anti-Human CD45 (CL647-65082, Clone: 2D1) (red) or isotype control antibody (blue). Samples were not fixed.

Human		
Antigen	Clone	Available fluorophores
		APC
	HI30	FITC
		PE
	2D1	FITC
CD45		PE
		CoraLite488
		CoraLite647
	File	APC
	F10- 89-4	FITC
		PE

Mouse		
Antigen	Clone	Available fluorophores
		APC
		FITC
CD45	30-F11	PE
		CoraLite488
		CoraLite647
	A20	APC
		FITC
CD45.1		PE
		CoraLite488
		CoraLite647
	104	APC
CD45.2		FITC
		CoraLite488
		CoraLite647

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B Cells



Anti-Human CD25

Cat. No.: CL488-65096

Clone: BC96

Host & Isotype: Mouse IgG1 **Conjugation:** CoraLite® 488

Anti-Human CD4

Cat. No.: APC-65134

Clone: OKT4

Host & Isotype: Mouse IgG2b

Conjugation: APC

1X10^6 human peripheral blood mononuclear cells (PBMCs) were surface stained with APC Anti-Human CD4 (APC-65134, Clone: OKT4) and 5.00 ul CoraLite®488-conjugated Anti-Human CD25 (CL488-65096, Clone: BC96).

Human		
Antigen	Clone	Available fluorophores
		APC
CD5	UCHT2	PE
	001112	CoraLite488
		CoraLite647
CD19	CD19 HIB19	APC
CDI9	111019	PE
	CD20 2H7	APC
		FITC
CD20		PE
		CoraLite488
		CoraLite647

Human		
Antigen	Clone	Available fluorophores
		APC
CD25	BC96	PE
3523		CoraLite488
		CoraLite647
		APC
CD40	G28.5	CoraLite488
		CoraLite647
CD72	3F3	PE
CD80	2D10 /	PE
(B7-1)	2D10.4	CoraLite647
IgD	gD IA6-2	APC
		PE

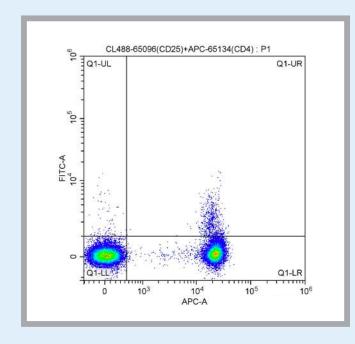
8. Antibodies for Flow Cytometry

B Cells

Mouse			
Antigen	Clone	Available fluorophores	
		APC	
		FITC	
CD25	PC61.5	PE	
		CoraLite488	
		CoraLite647	
	1C10	APC	
CD40		FITC	
		PE	
		CoraLite488	
	RA3-6B2	APC	
		FITC	
CD45R (B220)		PE	
, ,		CoraLite488	
		CoraLite647	

Mouse		
Antigen	Clone	Available fluorophores
		APC
		FITC
CD69	H1.2F3	PE
		CoraLite488
		CoraLite647
	16-10A1	APC
CD80 (B7-1)		FITC
		PE
	GL1	APC
CD86		FITC
		PE

T cells



Anti-Human CD4

Cat. No.: APC-65143

Clone: RPA-T4

Host & Isotype: Mouse IgG1

Conjugation: APC

Anti-Human CD3

Cat. No.: FITC-65151

Clone: UCHT1

Host & Isotype: Mouse IgG1

Conjugation: FITC

100 ul human peripheral blood was surface stained with APC-Anti-Human CD4 (APC-65143, Clone: RPA-T4) and 5.00 ul FITC-Anti-Human CD3 (FITC-65151, Clone: UCHT1). Lymphocytes were gated for analysis. Cells were not fixed ptglab.com 9.

T Cells

	Human		
Antigen	Clone	Available fluorophores	
		APC	
		FITC	
	Hit3a	PE	
		CoraLite488	
		CoraLite647	
		APC	
		FITC	
	OKT3	PE	
		CoraLite488	
CD3		CoraLite647	
		APC	
	SK7	FITC	
		PE	
		APC	
	UCHT1	FITC	
		PE	
		CoraLite488	
		CoraLite647	
	OKT4	APC	
		FITC	
		PE	
		CoraLite488	
		CoraLite647	
		APC	
		FITC	
CD4	RPA-T4	PE	
CD4		CoraLite488	
		CoraLite647	
		FITC	
	SK3	APC	
		CoraLite488	
		CoraLite647	

Human		
Antigen	Clone	Available fluorophores
		APC
CD.	UCUT	PE
CD5	UCHT	CoraLite488
		CoraLite647
		APC
		FITC
CD8	SK1	PE
		CoraLite488
		CoraLite647
		APC
	113.0	FITC
	Hit8a	CoraLite488
		CoraLite647
		APC
		FITC
	ОКТ8	PE
CD8a		CoraLite488
		CoraLite647
		APC
		FITC
	RPA-T8	PE
		CoraLite488
		CoraLite647
		APC
CD25	DCCC	PE
CD25	BC96	CoraLite488
		CoraLite647
		APC
	0323	FITC
CD27		PE
- ,		CoraLite488
		CoraLite647

Antibodies for Flow Cytometry

T Cells

Human		
Antigen	Clone	Available fluorophores
		APC
CD28	CD28.2	FITC
		PE
		APC
		FITC
CD45RA	HI100	PE
		CoraLite488
		CoraLite647
		APC
		FITC
CD/FDO	1161114	PE
CD45RO	UCHL1	CoraLite488
		CoraLite647
CD62L	DREG56	FITC
		APC
CD73	AD2	FITC
		PE
		APC
CD270 (DD 4)	J110	PE
CD279 (PD-1)	1110	CoraLite488
		CoraLite647
		APC
CD279	EH12.2H7	FITC
		PE

Mouse		
Antigen	Clone	Available fluorophores
		APC
CD3	17A2	FITC
		PE
	·	CoraLite488
		CoraLite647
		APC
	145-2C11	FITC
	ľ	PE
		APC
CD3ε		FITC
	500-A2	PE
		CoraLite488
		CoraLite647
		APC
		FITC
	GK1.5	PE
		CoraLite488
60.4		CoraLite647
CD4		APC
		FITC
	RM4-5	PE
		CoraLite488
		CoraLite647
		APC
CD8a	53-6.7	FITC
		PE

See product-specific protocols at www.ptglab.com/support/protocols/



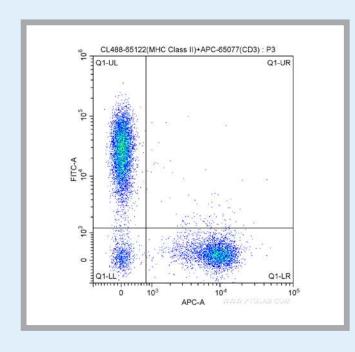
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T Cells

Mouse		
Antigen	Clone	Available fluorophores
CD8a	53-6.7	CoraLite488
C 5 0 0	33 0.7	CoraLite647
		APC
		FITC
CD25	PC61.5	PE
		CoraLite488
		CoraLite647
	IM7	APC
CD44		FITC
3344		PE
		CoraLite488
	MEL-14	APC
CD62L (L-		FITC
Selectin)		PE
		CoraLite647

Mouse		
Antigen	Clone	Available fluorophores
		APC
		FITC
CD69	H1.2F3	PE
		CoraLite488
		CoraLite647
		APC
CD127	A7R34	PE
(IL-7Ra)		CoraLite488
		CoraLite647
CD279	RMP1-30	APC
(PD-1)	KINI I JO	PE
	H57-597	APC
		FITC
TCR beta		PE
		CoraLite488
		CoraLite647

Dendritic cells



Anti-Mouse MHC Class II (I-A/I-E)

Cat. No.: CL488-65122 Clone: M5/114.15.2 Host & Isotype: Rat IgG2b Conjugation: CoraLite® 488

Anti-Mouse CD3

Cat. No.: APC-65077

Clone: 17A2

Host & Isotype: Rat IgG2b

Conjugation: APC

1X10^6 C57BL/6 mouse splenocytes were surface stained with APC-Anti-Mouse CD3 (APC-65077, Clone: 17A2) and 5.00 ul CoraLite®488-conjugated Anti-Mouse MHC Class II (I-A/I-E) (CL488-65122, Clone: M5/114.15.2). Cells were not fixed.

12. Antibodies for Flow Cytometry

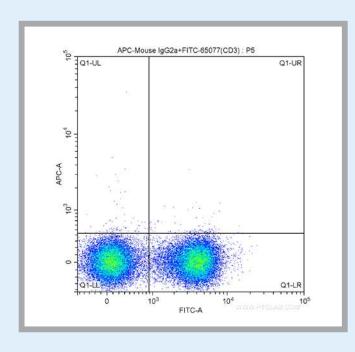
Dendritic Cells

Human			
Antigen	Clone	Available fluorophores	
		APC	
CD1a	HI149	FITC	
	4,5	PE	
CD1c	L161	APC	
CDIC	CD16 L161	PE	
	FITC		
		PE	
CD11c	3.9	APC	
		CoraLite488	
		CoraLite6477	

Mouse		
Antigen	Clone	Available fluorophores
	M5/ 114.15.2	APC
		FITC
MHC Class II (I-A/I-E)		PE
(1111)		CoraLite488
		CoraLite647

	Mouse		
Antigen	Clone	Available fluorophores	
		APC	
CD11c	N418	CoraLite488	
		CoraLite647	
		APC	
		FITC	
CD8a	53-6.7	PE	
		CoraLite488	
		CoraLite647	
	M1/70	APC	
		FITC	
CD11b		PE	
		CoraLite488	
		CoraLite647	
	CD103 2E7	FITC	
CD407		PE	
CDIO2		CoraLite488	
		CoraLite647	

NK Cells



Anti-Mouse NK1.1/CD161

Cat. No.: APC-65138

Clone: PK136

Host & Isotype: Mouse IgG2A

Conjugation: APC

Anti-Mouse CD3

Cat No.: FITC-65077

Clone: 17A2

Host & Isotype: Rat IgG2b

Conjugation: FITC

1X10^6 C57BL/6 mouse splenocytes were surface stained with FITC Anti-Mouse CD3 (FITC-65077, Clone: 17A2) and 0.13 ug APC Anti-Mouse NK1.1 (CD161) (APC-65138, Clone: PK136). Cells were not fixed.

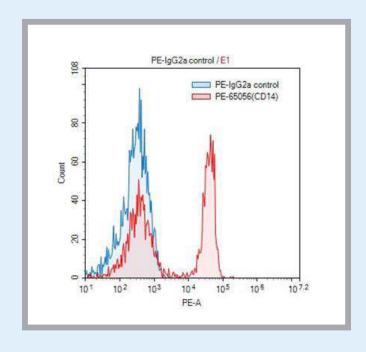
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NK Cells

Human		
Antigen	Clone	Available fluorophores
		PE
CD56	MEM 188	FITC
		PE
CD1c	CD161	APC
CDIC		FITC
		PE
		CoraLite488
		CoraLite647
CD314	1D11	APC
CD314	1011	PE

	Mouse		
Antigen	Clone	Available fluorophores	
NK1.1	PK136	APC	
(CD161)		PE	
		CL647-65138	
	DX5	APC	
CD49b		FITC	
25490		CoraLite488	
		CoraLite647	

Monocytes



Anti-Human CD14

Cat. No.: PE-65056 Clone: UCHM-1

Host & Isotype: Mouse IgG2a

Conjugation: PE

100 ul human peripheral blood was surface stained with 10 ul PE-Anti-Human CD14 (PE-65056, clone UCHM-1) (red) or PE-mouse IgG2a control antibody (blue) and then treated with red blood cell lysis buffer. Monocytes were gated for analysis. Samples were not fixed.

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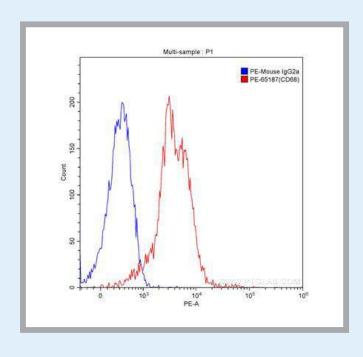
Antibodies for Flow Cytometry

Monocytes

	Human		
Antigen	Clone	Available fluorophores	
		APC	
CD11b	ICRF44	FITC	
		PE	
		CoraLite488	
		CoraLite647	
		APC	
		FITC	
CD11c	3.9	PE	
		CoraLite488	
		CoraLite647	
CD14	UCHM-1	FITC	
CD14	OCHIM-1	PE	
CD16	3G8	PE	

Mouse		
Antigen	Clone	Available fluorophores
		APC
		FITC
CD11b	M1/70	PE
		CoraLite488
		CoraLite647
		FITC
	2.4G2	PE
		CoraLite488
CD16/		CoraLite647
CD32	93	APC
		FITC
		PE
		APC
	RB6-8C5	FITC
Ly-6G (Gr-1)		PE
		CoraLite488
		CoraLite647

Macrophages



Anti-Human CD68

Cat. No.: PE-65187 Clone: Y1/82A

Host & Isotype: Mouse IgG2a

Conjugation: PE

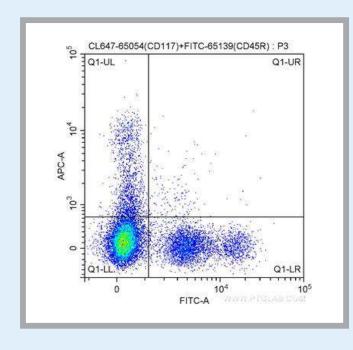
1X10^6 human peripheral blood monocytes were intracellularly stained with 10.00 ul/test PE Anti-Human CD68 (PE-65187, Clone:Y1/82A) (red) or isotype control antibody (blue). Samples were not fixed ptglab.com 15.

Macrophages

Human		
Antigen	Clone	Available fluorophores
		APC
		FITC
CD11b	ICRF44	PE
		CoraLite488
		CoraLite647
CD14	UCHM-1	FITC
CD14		PE
CD16	3G8	PE
CD68	Y1/82A	PE
CDOO		APC
CD80 (B7-1)	2D10.4	PE
CD163	GHI/61	PE

Mouse		
Antigen	Clone	Available fluorophores
		APC
		FITC
CD11b	M1/70	PE
		CoraLite488
		CoraLite647
		APC
CD86	GL1	FITC
		PE

Hematopoietic stem cells



Anti-Mouse CD45R

Cat. No.: FITC-65139 Clone: RA3-6B2

Host & Isotype: Rat IgG2a

Conjugation: FITC

Anti-Mouse CD117

Cat. No.: CL647-65054

Clone: 2B8

Host & Isotype: Rat IgG2b Conjugation: CoraLite® 647

1X10^6 C57BL/6 mouse bone marrow cells were surface stained with FITC Anti-Mouse CD45R (B220) (FITC-65139, Clone: RA3-6B2) and 5.00 ul CoraLite®647-conjugated Anti-Mouse CD117 (CL647-65054, Clone: 2B8). Cells were not fixed.

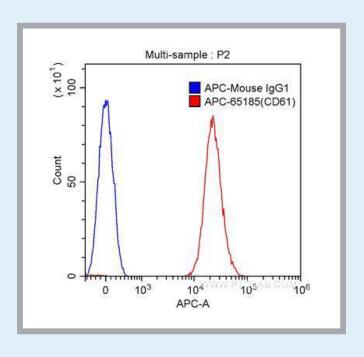
Antibodies for Flow Cytometry

Hematopoietic stem cells

Human		
Antigen	Clone	Available fluorophores
	HIT2	PE
	ПП	APC
CD38		PE
	НВ7	CoraLite488
		CoraLite647
	HI100	APC
		FITC
CD45RA		PE
		CoraLite488
		CoraLite647
CD117	104D2	PE
CDIII		APC

Mouse		
Antigen	Clone	Available fluorophores
		FITC
		PE
CD38	90	APC
	,	CoraLite488
		CoraLite647
		FITC
		PE
CD90.2	30-H12	APC
		CoraLite488
		CoraLite647
		FITC
		PE
CD117	2B8	APC
		CoraLite488
		CoraLite647
		PE
CD117	ACK2	APC
CD117 (c-Kit)		CoraLite488
		CoraLite647

Megakaryocytes/platelets



CD61

Cat. No.: APC-65185

Clone: VIPL2

Host & Isotype: Mouse IgG1 Kappa

Conjugation: APC

1X10^6 human peripheral blood platelets were surface stained with 10.00 ul/test APC Anti-Human CD61 (APC-65185, Clone:VIPL2) (red) or isotype control antibody (blue). Samples were not fixed.

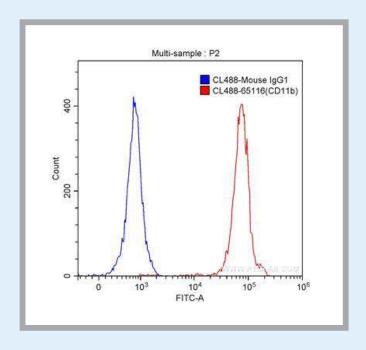
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Megakaryocytes/platelets

Human		
Antigen	Clone	Available fluorophores
CD9	MM2/57	FITC
CD9		PE
	VIPL2	APC
CD61		FITC
		PE

Mouse			
Antigen	Clone	Available fluorophores	
CD31	390	APC	
		FITC	
		PE	
		CoraLite488	
		CoraLite647	

Granulocytes



CD11b

Cat. No.: CL488-65116

Clone: ICRF44

Host & Isotype: Mouse IgG1 **Conjugation:** CoraLite®488

1X10^6 human peripheral blood granulocytes were surface stained with 5.00 ul/test CoraLite®488-conjugated Anti-Human CD11b (CL488-65116, Clone: ICRF44) (red) or isotype control antibody (blue). Samples were not fixed.

For more product information please visit www.ptglab.com



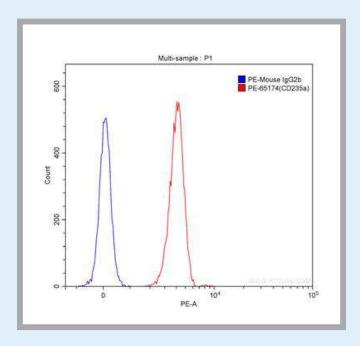
Granulocytes

Human			
Antigen	Clone	Available fluorophores	
		APC	
		FITC	
CD11b	ICRF44	PE	
		CoraLite488	
		CoraLite647	
		APC	
		FITC	
CD11c	3.9	PE	
		CoraLite488	
		CoraLite647	
		APC	
CD13	WM15	FITC	
		PE	
CD16	3G8	PE	
		APC	
CD44	F10-44-2	FITC	
		PE	
CD107a	H4A3	PE	
CD10/4	П4АЭ	FITC	
CD107b	H4B4	FITC	
CD107b	11404	PE	

Antigen Clone Available fluorophores APC FITC CD11b M1/70 PE CoraLite488	
CD11b M1/70 PE	
CD11b M1/70 PE	
CoraLite488	
CoraLite647	
APC	
CD11c N418 CoraLite488	
CoraLite647	
FITC	
2.4G2 PE	
CoraLite488	
CD16 / CD32 CoraLite647	
APC	
93 FITC	
PE	
APC	
CD107a 1D4B FITC	
CoraLite488	
CoraLite647	
APC	
CD107b ABL-93 FITC	
CoraLite488	
CoraLite647	
APC	
FITC	
Ly-6G 1A8 PE	
CoraLite488	
CoraLite647	
APC	
FITC	
Ly-6G (Gr-1) RB6-8C5 PE	
CoraLite488	
CoraLite647	

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Red Blood Cells



CD235a

Cat. No.: PE-65174

Clone: HIR2

Host & Isotype: Mouse IgG2b

Conjugation: PE

Human red blood cells were surface stained with PE-Anti-Human CD235a (PE-65174, Clone:HIR2) (red) or PE-Mouse IgG2b Isotype Control (blue). Samples were not fixed.

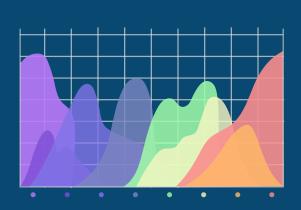
Human			
Antigen	Clone	Available fluorophores	
CD235a HIR2	HIR2	FITC	
		PE	

Mouse			
Antigen	Clone	Available fluorophores	
TER-119	TER-119	APC	
		FITC	
		CoraLite488	
		CoraLite647	

CARRIER-FREE AND CUSTOM ORDERS BY REQUEST

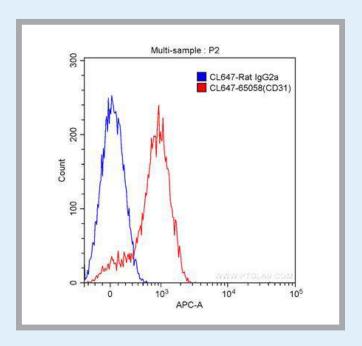
Proteintech is happy to offer all of its antibodies in bulk quantities or custom formulations such as glycerol-free, azide-free buffer.

Visit **ptglab.com/promotions/bulk-order-promotion** to learn more.



20. Antibodies for Flow Cytometry

Endothelial cells



CD31

Cat. No.: CL647-65058

Clone: 390

Host & Isotype: Rat IgG2a **Conjugation:** CoraLite®647

1X10^6 C57BL/6 mouse splenocytes were surface stained with 5.00 ul/test CoraLite®647-conjugated Anti-Mouse CD31 (CL647-65058, Clone: 390) (red) or isotype control antibody (blue). Samples were not fixed.

Human			
Antigen	Clone	Available fluorophores	
CD54	15.2	APC	
(ICAM-1)		PE	
CD106	1.G11B1	PE	
CD146	P1H12	PE	

Mouse			
Antigen	Clone	Available fluorophores	
	390	APC	
CD31		FITC	
CD31		PE	
		CoraLite488	
	YN1/1.7.4	CoraLite647	
CD54		APC	
		FITC	
		PE	
		CoraLite488	
CD146	P1H12	PE	

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Fluorophores and dyes

Fluorophore	Fluorescence Colour	Maximal Absorbance, nm	Maximal Emissions, nm	Relative Brightness
Alexa Fluor 405		401	421	3
Pacific Blue		410	455	1
CoraLite 488		495	519	3
FITC		490	525	3
PE*		490; 565	578	5
CoraLite 594		590	617	4
АРС		650	661	4
CoraLite 647		650	665	4
PerCP		490	675	2
Alexa Fluor 700		702	723	2

^{*}PE is the same as R-phycoerythrin

Cy = cyanine. APC = allophycocyanin. FITC = fluorescein isothiocyanate. PE = phycoerythrin. PerCP = peridinin chlorophyll protein.

The majority of flow cytometry experiments involve the use of fluorophores. They act by accepting energy of a certain wavelength (for example a laser) that causes the electrons in the fluorophore to move from a resting to an excited state, releasing energy as fluorescence at a lower wavelength. The excitation-emission spectrum of a fluorophore defines its properties when used for designing panels in multiplex experiments.

Single dye organic fluorophores such as FITC, APC, PE, and PerCP have been around for many years. More recently, synthetic dyes such as Alexa Fluor™* and CoraLite®** have been designed with enhanced brightness and greater photostability. The above table lists the absorbance and emission for each dye as a relative guide.

You can visit our interactive Spectra Viewer tool on our website to view more detail about the excitation and emission curves of CoraLite® and other fluorescent dyes. https://www.ptglab.com/products/flow-cytometry-antibodies/

^{*}Alexa fluor is a registered trademark of Life Technologies Corporation

^{**}CoraLite is a registered trademark of Proteintech Group



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ANTIBODIES FOR FLOW CYTOMETRY





