proteintech®

Flow Cytometry

CATALOG

ptglab.com

TABLE OF CONTENTS

Human Hematopoietic Stem Cell Tree **3**

Mouse Hematopoietic Stem Cell Tree **4**

Fluorophore Guide **5**

Antibodies for Extracellular Markers **6**

- CD Markers **6-18**
- Other Extracellular Targets **19**

Isotype Controls **20**

Flow Panels **20**

Next Generation Flow Cytometry Reagents **21-22**

Antibodies for Intracellular Markers **24**

- Cytokines **24-26**
- Transcription Factors and Cell Signaling **26-29**
- Common Cell Death Targets **29-30**

Select Neuroscience Targets **31-33**

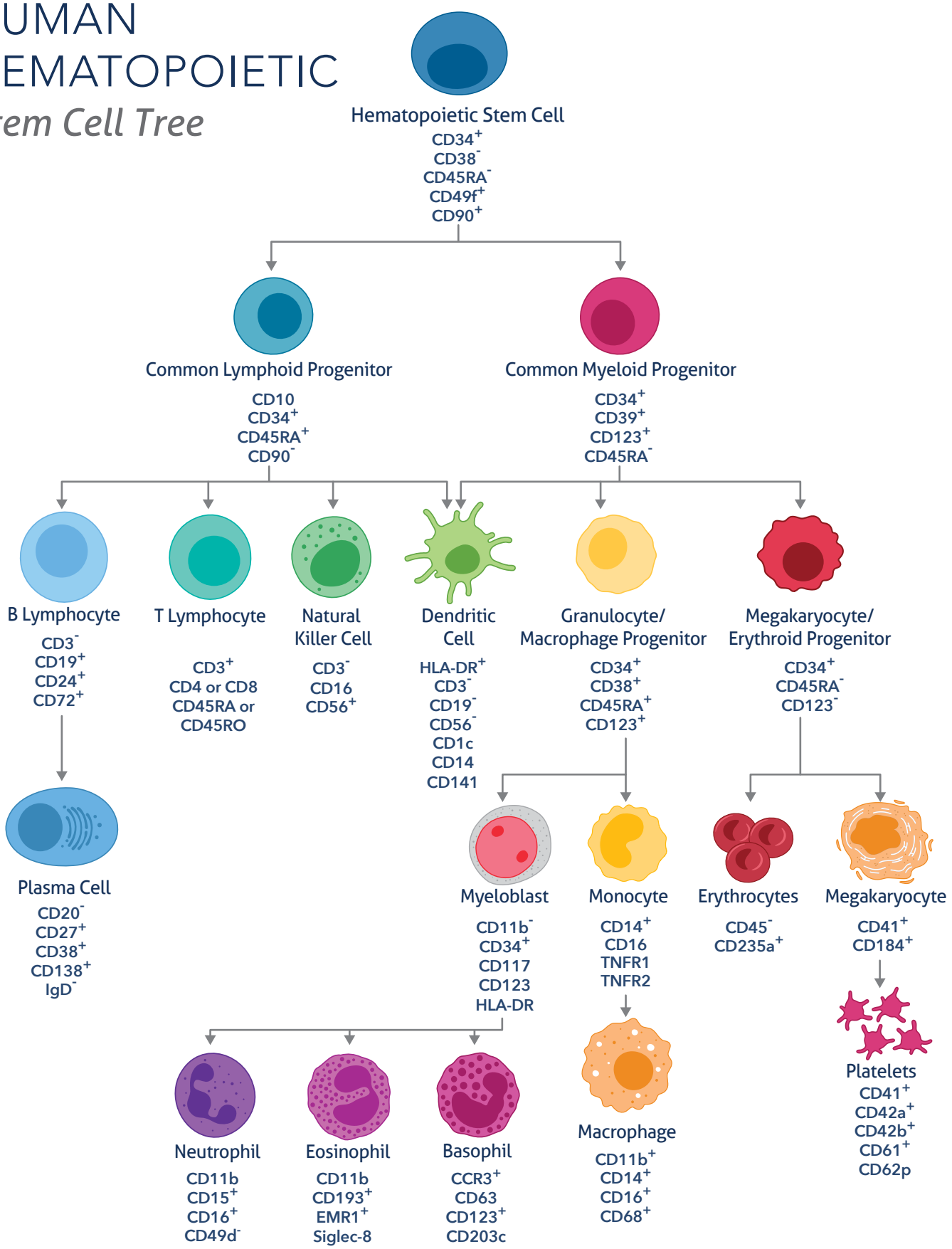
Supporting Products **34**

- Secondary Antibodies **34**
- FlexAble Antibody Labeling Kits **34**
- Cell Death and Viability Dyes **35**
- Fix and Perm Reagents **35**
- Cell Separation Products **35**
- Other Supporting Reagents **35**

Contact Us **36**

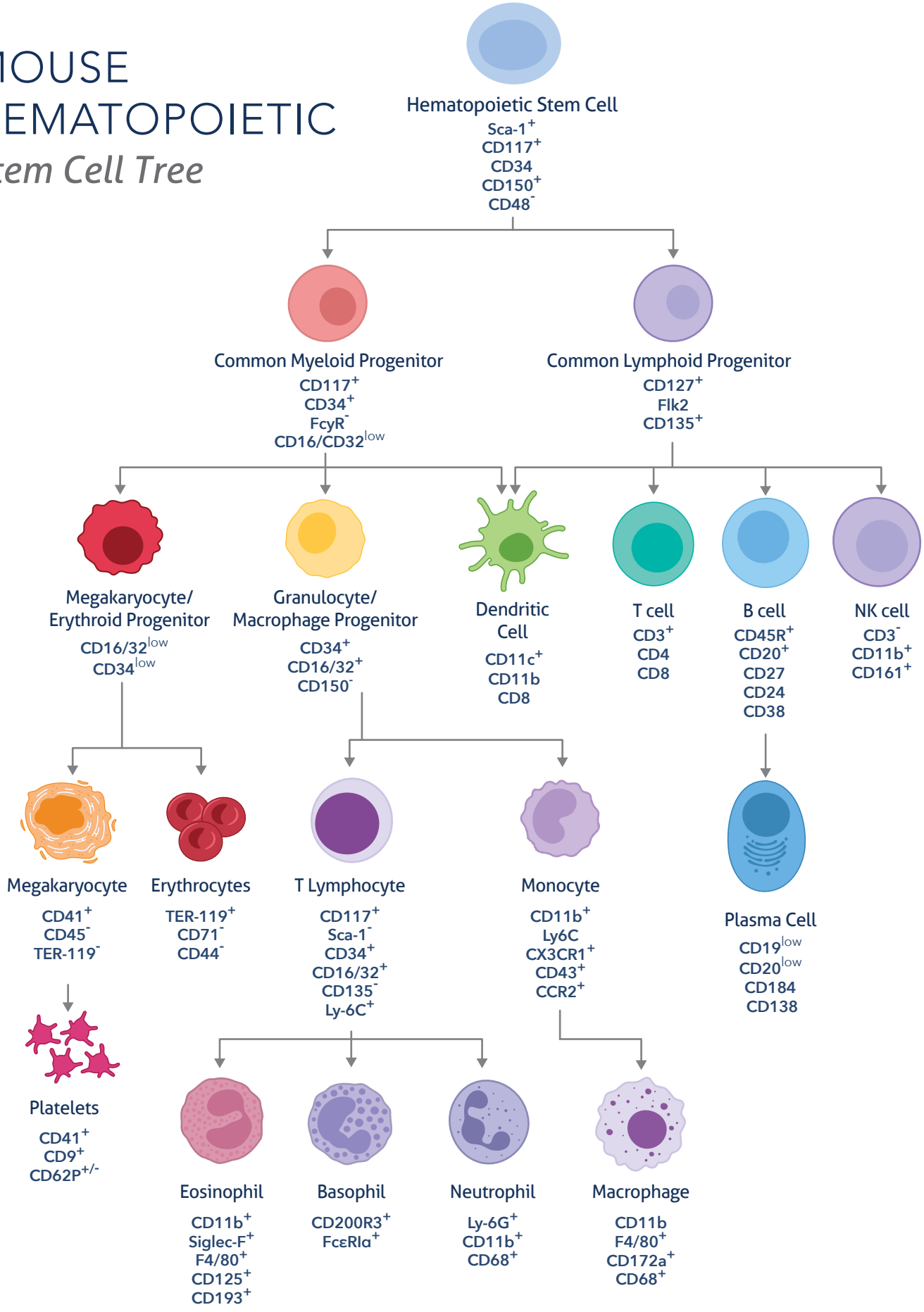
Updated September 2025

HUMAN HEMATOPOIETIC *Stem Cell Tree*



All Markers listed above are expressed unless followed by a -.

MOUSE HEMATOPOIETIC *Stem Cell Tree*



All Markers listed above are expressed unless followed by a -.

PROTEINTECH
Fluorophore Guide

Laser	Fluorophore	Max Ex (nm)	Max Ex (nm)	Brightness	Similar Channel as
Violet (405nm)	CoraLite Plus 405	401	452	1	Pacific Blue, Alexa Fluor 405, StarBright Violet 440, BV421
	Atlantic Blue	404	431	1	
	CoraLux Violet 510	410	501	3	BV510, StarBright Violet 515
Blue (488nm)	FITC Plus	490	525	3	FITC, Alexa Fluor 488, BB515
	CoraLite Plus 488	488	515	3	
	PerCP	482	675	1	StarBright Blue 675, BB660
	PerCP-Cyanine5.5	482	695	2	StarBright Blue 700, BB700
Yellow (561nm)	PE	565	578	5	Alexa Fluor 534, StarBright Yellow 575, RealYellow 586
	CoraLite Plus 555	555	565	2	
	Cardinal Red	592	611	3	Texas Red, Alexa Fluor 568, StarBright Yellow 605, RealYellow 610
	CoraLite Plus 594	594	615	4	
	PE-Cyanine5	565	667	5	StarBright Yellow 665
	PE-Cyanine5.5	565	695	4	RealYellow 703, PE-Fire 700
	PE-Cyanine7	565	778	4	StarBright Yellow 800
Red (638nm)	APC	651	660	4	Alexa Fluor 647
	CoraLite Plus 647	647	667	4	
	CoraLite 700	696	719	3	Alexa Fluor 700
	APC-Cyanine7	650	785	2	APC-Fire 750
	CoraLite Plus 750	750	775	3	Alexa Fluor 750

Antibodies for EXTRACELLULAR MARKERS

For more products

Fluorophore Key

Common laser	Violet (405nm)	Blue (488nm)		Yellow (561nm)				Red (638nm)		
Common filter	450/45	525/40	690/50	585/42	610/20	690/50	780/60	660/10	712/25	780/60

For more information about Proteintech's fluorophore offering, see page 5

CD Markers

Cluster of differentiation (CD) markers are cell surface molecules on immune cells. These are specific to cell populations and are used in immunophenotyping by flow cytometry to detect and quantify immune cell subpopulations.

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
	CD1a	HI149	Human	65172		●	●	●	● ●	● ●
	CD1c	L161	Human	65176		●	●	●	● ●	● ●
R	CD1d	1B1	Mouse	65242	✓	●	●	●	☆ ●	●
R	CD2	241222E0	Human	98134	✓	●	☆	☆	☆ ☆	● ☆
R	CD2	TS1/8	Human	65192	✓	●	●	●	● ●	● ●
R	CD2	241548A5	Mouse	98193		●	☆	●	☆ ●	● ☆
	CD3	Hit3a	Human	65112		●	●	●	● ●	● ●
R	CD3	OKT3	Human	65133	✓	●	●	● ●	● ● ●	● ●
	CD3	SK7	Human	65148		●	●	●	● ☆	● ●
R	CD3	UCHT1	Human	65151	✓	●	● ●	● ●	● ● ●	● ● ●
R	CD3	17A2	Mouse	65077	✓	●		●	● ● ●	●
R	CD3ε	145-2C11	Mouse	65060	✓	●		●	● ●	●
R	CD3	242568D11	Rabbit	98349		●	☆	●	☆ ☆	☆ ☆
R	CD4	240427E12	Human	98042	✓	●	●	● ●	● ●	● ●
R	CD4	OKT4	Human	65134	✓	●	●	●	● ● ●	● ●
	CD4	RPA-T4	Human	65143		●	●	●	● ●	● ●
	CD4	SK3	Human	65147		●	●	●	● ● ●	● ●
R	CD4	GK1.5	Mouse	65104		●	●	● ●	● ●	● ●
R	CD4	RM4-4	Mouse	65199	✓	●	●	●	● ●	● ●
R	CD4	241955C11	Rat	98252	✓	●	☆	☆	● ☆	● ☆
R	CD5	240428A12	Human	98054	✓	●	☆	●	● ●	● ☆

R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD5	L17F12	Human	65200	✓	●	●	●	● ●	● ●
R	CD5	UCHT2	Human	65152	✓	●	●	●	● ●	● ●
R	CD5	240244A7	Mouse	98038	✓	●	●	●	● ●	● ●
R	CD6	241965C9	Human	98223	✓	●	☆	●	● ●	● ☆
R	CD6	241471F3	Mouse	98161	✓	●	☆	●	● ●	● ☆
R	CD7	242402H8	Human	98204	✓	●	● ●	●	● ☆	● ● ☆
	CD7	4H9	Human	65203		●	●	●	● ●	☆ ☆
R	CD8	SK1	Human	65146	✓	●	● ●	●	● ● ●	● ● ●
R	CD8	UCHT4	Human	65204		●	●	● ●	● ● ●	● ●
	CD8a	Hit8a	Human	65113		●	●	●	● ●	● ●
R	CD8a	OKT8	Human	65135	✓	●	●	●	● ●	● ●
	CD8a	RPA-T8	Human	65144		●	●	●	● ●	● ●
	CD8a	53-6.7	Mouse	65069		●	●	● ●	● ●	● ●
	CD8a	5H10-1	Mouse	65205		●	●	●	● ●	● ●
R	CD8a	OX-8	Rat	65180	✓	●	●	●	● ●	● ●
R	CD8b	241326A7	Human	98103	✓	●	☆	● ●	● ●	● ☆
R	CD9	240830E6	Human	98095	✓	●	●	●	● ●	● ●
R	CD9	242432C7	Mouse	98270		●	☆	☆	☆ ☆	☆ ☆
R	CD10 (Neprilysin)	2413220	Human	98116		●	☆	☆	☆ ☆	☆ ☆
R	CD11a	TS2/4	Human	65194	✓	●	●	● ●	● ● ●	● ●
R	CD11a	M17/4	Mouse	65177		●	●	●	● ●	● ●
R	CD11b	ICRF44	Human	65116	✓	●	●	●	● ● ●	● ●
R	CD11b	M1/70	Human, Mouse	65055		●	●	● ●	● ● ●	● ●
R	CD11b	OX42	Rat	65229	✓	●	●	●	● ●	● ●
R	CD11c	3.9	Human	65086	✓	●	●	●	● ●	● ●
R	CD11c	BU15	Human	65196		●	●	●	● ●	● ●
R	CD11c	N418	Mouse	65130		●	●	●	● ●	● ●
R	CD13	WM15	Human, Primates	65186		●	●	●	● ●	● ●
R	CD14	230332D7	Human	98040	✓	●	●	●	● ●	● ●
R	CD14	26IC	Human	65246		●	●	●	● ● ●	● ●
	CD14	UCHM-1	Human	65056		●	●	●	● ●	● ●
R	CD14	240225C2	Mouse	98020	✓	●	☆	●	☆ ●	● ☆
R	CD16	242426C2	Human	98387		●	☆	☆	☆ ☆	☆ ☆
R	CD16	3G8	Human	65090	✓	●	●	●	● ●	● ●
	CD16/CD32	93	Mouse	65057		●	●	●	● ●	● ●
R	CD16a	242426G11	Human	98293		●	☆	☆	☆ ☆	☆ ☆
R	CD16b	241713000	Human	98192		●	☆	☆	● ☆	☆ ☆
R	CD18	TS1/18	Human	65190	✓	●	●	●	● ● ●	● ●
R	CD18	M18/2	Mouse	65178		●		●	☆	●

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD19	4G7	Human	65197	✓	●	●	●	● ● ●	● ●
	CD19	HIB19	Human	65110		●	●	●	● ●	● ●
R	CD19	242301C6	Mouse	98287		●	☆	☆	☆ ☆ ●	☆ ●
R	CD19	1D3	Mouse	65290		●	●	●	●	● ●
R	CD19	242570A11	Rabbit	98351		●	☆	☆	☆ ☆	☆ ☆
R	CD20	2H7	Human	65085	✓	●	●	●	● ●	● ●
R	CD21	BU32	Human	65198	✓	●	●	●	● ●	● ●
R	CD22	241315A1	Human	98092		●	●	●	☆ ●	● ●
R	CD23	241270C6	Human	98088	✓	●	●	●	● ●	● ●
R	CD23	241385D1	Mouse	98164		●	☆	●	☆ ☆	● ☆
R	CD24	241691D7	Mouse	98176	✓	●	●	●	● ●	● ●
	CD24	M1/69	Mouse	65121		●		●	☆ ●	● ●
R	CD25 (IL-2Rα)	BC96	Human	65096	✓	●	●	●	● ● ●	● ●
R	CD25	242494H5	Mouse	98288	✓	●	☆	☆	● ☆	● ☆
	CD25	PC61.5	Mouse	65137		●	●	●	● ●	● ●
R	CD26	242045C1	Human	98261	✓	●	☆	☆	● ☆	☆ ☆
	CD26	BA5b	Human	65267		●	●	●	● ●	● ●
R	CD26	242823A9	Mouse	98356	✓	●	☆	☆	☆ ☆	☆ ☆
R	CD27	242731G8	Human	98346	✓	●	☆	●	● ● ●	● ☆
	CD27	O323	Human	65132		●	●	●	● ●	● ●
R	CD27	241378E11	Mouse	98160	✓	●	●	●	● ●	● ●
R	CD28	240354D2	Human	98032		●	☆	●	☆ ●	☆ ●
R	CD28	CD28.2	Human	65099	✓	●	●	●	● ●	● ●
R	CD28	241707H6	Mouse	98195	✓	●	☆	☆	● ●	☆ ☆
R	CD28H (TMIGD2)	241807A5	Human	98263		●	☆	☆	☆ ☆	☆ ☆
R	CD29 (ITGB1)	241685C10	Human	98188	✓	●	☆	●	● ●	● ☆
R	CD29	TS2/16	Human	65191	✓	●	●	●	● ●	● ●
R	CD30 (TNFRSF8)	241330A12	Human	98124	✓	●	☆	☆	● ☆	● ☆
R	CD30	241710B4	Mouse	98209		●	☆	☆	☆ ☆	☆ ☆
R	CD30L	241831D9	Human	98253		●	☆	☆	☆ ☆	☆ ☆
R	CD30L	241012G10	Mouse	98113		●	☆	●	☆ ●	● ☆
R	CD31	WM-59	Human	65268		●	●	●	● ●	● ●
R	CD31	242041B5	Mouse	98258		●	☆	●	☆ ●	● ☆
	CD31	390	Mouse	65058		●		●	● ●	●
R	CD33	241711C12	Human	98184		●	☆	●	☆ ●	● ☆
	CD33	WM53	Human	65272		●	●	●	● ●	● ●
R	CD34	242069A6	Human	98145		●	●	● ●	● ● ●	● ●
R	CD34	240659B11	Mouse	98069	✓	●	☆	●	● ☆	● ☆

R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD35	E11	Human	65254	✓	●	●	●	● ●	● ●
R	CD36	241262D5	Human	98132	✓	●	☆	☆	● ☆	● ☆
	CD36	SM□	Human	65248		●		●	●	● ●
R	CD36	242662C12	Mouse	98350		●	☆	☆	☆ ☆	☆ ☆
R	CD37	242011D6	Human	98222		●	☆	☆	☆ ☆	☆ ☆
R	CD38	241246F9	Human	98148	✓	●	●	●	● ●	● ●
	CD38	HIT2	Human	65111		●	●	●	● ●	● ●
R	CD38	250107D11	Mouse	98433		●	☆	☆	☆ ☆	☆ ☆
	CD38	90	Mouse	65059		●	●	●	● ●	● ●
R	CD39	241292G7	Human	98102	✓	●	●	●	● ●	● ●
R	CD40	241760A9	Human	98191		●	☆	☆	☆ ☆	☆ ☆
	CD40	G28.5	Human	65103		●	☆	●	☆ ☆	● ☆
R	CD40	240874G8	Mouse	98122	✓	●	☆	●	● ●	● ☆
	CD41	MWReg30	Mouse	65189		●	●	●	● ●	● ●
	CD41a	HIP8	Human, Primates	65173	✓	●	●	●	● ●	● ●
R	CD42b	AK2	Human	65163	✓	●	● ●	●	● ●	● ● ●
R	CD43	W3/13	Rat	65237	✓	●	●	●	● ●	● ●
R	CD44	242345G9	Human	98333	✓	●	☆	☆	☆ ☆	☆ ☆
R	CD44	F10-44-2	Human	65063	✓	●	●	●	● ●	● ●
	CD44	IM7	Human, Mouse	65117		●		●	● ●	● ●
R	CD44	241648F8	Rat	98208		●	☆	☆	☆ ☆	☆ ☆
R	CD45	241670E10	Human	98117	✓	●	● ●	●	● ●	● ●
	CD45	HI30	Human	65109		●	●	● ●	● ●	● ●
R	CD45	240356D1	Mouse	98035	✓	●	●	●	● ●	● ●
	CD45	30-F11	Mouse	65087		●	●	●	● ●	●
	CD45	OX1	Rat	65228		●	●	●	● ●	● ●
R	CD45.2	240922E12	Mouse	98168		●	●	●	☆ ●	● ●
	CD45.2	104	Mouse	65072		●	☆	●	● ●	● ☆
	CD45R (B220)	RA3-6B2	Human, Mouse	65139		●	●	●	● ●	● ●
	CD45RA	F8-11-13	Human	65226		●	●	●	● ●	● ●
	CD45RA	HI100	Human	65108		●	●	● ●	● ●	● ●
R	CD45RA	OX-33	Rat	65234	✓	●	☆	●	● ●	● ●
R	CD45RO	UCHL1	Human	65150	✓	●	●	● ●	● ●	● ●
R	CD46	241764C9	Human	98240		●	☆	☆	☆ ☆	☆ ☆
R	CD47	240997D8	Human	98131	✓	●	●	●	☆ ●	● ●
R	CD48	241389F8	Human	98170	✓	●	☆	☆	● ☆	● ☆
R	CD48	240732A5	Mouse	98081		●	☆	☆	☆ ☆	☆ ☆
	CD48	HM48-1	Mouse	65227		●	●	●	● ●	● ●

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD49b	AK7	Human	65252		●	● ●	●	● ●	● ● ●
R	CD49e (ITGA5)	241685D4	Human	98171	✓	●	☆	☆	● ☆	☆ ☆
R	CD49f	241703B5	Human	98257		●	☆	☆	☆ ☆	☆ ☆
R	CD50 (ICAM3)	241418E8	Human	98097	✓	●	☆	●	● ●	● ☆
R	CD54 (ICAM-1)	15.2	Human	65075	✓	●	●	●	● ●	● ●
R	CD54	240646A11	Human	98011	✓	●	☆	●	● ●	● ●
R	CD54	240249D10	Mouse	98049	✓	●	●	●	● ☆	● ●
R	CD54	240725C2	Rat	98060	✓	●	☆	●	● ●	● ☆
	CD55	JS11	Human	65271		●	☆	●	● ●	● ●
R	CD55	241808D11	Mouse	98228	✓	●	☆	☆	☆ ☆	☆ ☆
R	CD56 (NCAM1)	240078A7	Human	98033	✓	●	☆ ●	●	● ●	● ●
	CD56	B-A19	Human	65264		●	●	●	● ●	● ●
R	CD56	240936A4	Mouse	98118	✓	●	☆	☆	● ☆	☆ ☆
R	CD58	TS2/9	Human	65193	✓	●	●	●	● ☆	● ●
R	CD59	241311A4	Human	98099	✓	●	☆	●	● ●	● ☆
R	CD62E (E-selectin)	241767H6	Human	98189		●	☆	●	☆ ●	● ☆
R	CD62E	240700D4	Mouse	98065	✓	●	☆	☆	● ☆	● ☆
	CD62L (L-selectin)	DREG56	Human	65167		●	●	● ●	● ●	● ●
	CD62L	MEL14	Mouse	65219		●	●	●	● ●	● ●
R	CD62P	AK4	Human, Primates	65164	✓	●	● ●	●	● ●	● ● ●
R	CD62P	240766F5	Mouse	98302		●	☆	●	☆ ☆	☆ ☆
R	CD63	241964E1	Human	98318		●	☆	●	☆ ●	● ☆
	CD63	H5C6	Human	65295		●	☆	☆	☆ ☆	☆ ☆
R	CD64	10.1	Human	65253	✓	●	●	●	● ●	● ●
R	CD64	241809A6	Mouse	98218	✓	●	☆	●	☆ ●	● ☆
R	CD66a (CEACAM1)	241856H5	Mouse	98185		●	☆	●	☆ ●	● ☆
R	CD66a/c/d	240497E12	Human	98061	✓	●	☆	☆	● ☆	● ☆
R	CD66b (CEACAM8)	230353B7	Human	98012	✓	●	●	● ●	● ● ●	● ●
R	CD66c (CEACAM6)	241997G1	Human	98329		●	☆	☆	☆ ☆	☆ ☆
R	CD66c/d	241254D1	Human	98169	✓	●	☆	☆	● ☆	● ☆
R	CD68 (Intracellular)	241810G1	Human	98242		●	●	●	☆ ●	● ●
R	CD68 (Intracellular)	KP1	Human	65202	✓	●	●	●	● ●	● ●
	CD68 (Intracellular)	Y1/82A	Human	65187		●	●	●	● ●	● ●
R	CD68 (Intracellular)	230504G5	Mouse	98029	✓	●	●	●	● ●	● ●
R	CD69	241552F1	Human	98173	✓	●	●	●	● ●	● ●
	CD69	H1.2F3	Mouse	65105		●	●	●	● ●	● ●
R	CD70	241325D8	Human	98098	✓	●	☆	●	● ●	● ☆
R	CD70	241553F2	Mouse	98212		●	☆	☆	☆ ☆	☆ ☆

R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD71	OKT9	Human	65235		●	●	●	● ●	● ●
R	CD71	242122F6	Mouse	98272		●	☆	☆	☆ ☆	☆ ☆
R	CD71	RI7217	Mouse	65289		●		☆	☆	☆
R	CD72	241300C1	Human	98090	✓	●	☆	●	●	● ☆
R	CD72	242846D10	Mouse	98354		●	☆	☆	☆ ☆	☆ ☆
R	CD73 (NT5E)	AD2	Human	65162	✓	●	●	● ●	● ● ●	● ●
R	CD73	241541G9	Mouse	98199		●	☆	●	☆ ●	● ☆
R	CD79a	241299F3	Human	98072	✓	●	☆	☆	● ●	● ●
R	CD79a	HM57	Human	65610	✓	●	☆	☆	● ☆	☆ ☆
R	CD79a	241231F7	Mouse	98129		●	☆	☆	☆ ●	● ☆
R	CD79b	241273B7	Human	98075		●	☆	●	☆ ●	● ☆
R	CD79b	241850D10	Mouse	98217		●	☆	●	☆ ●	● ☆
R	CD80	241371E12	Mouse	98158		●	☆	☆	☆ ☆	☆ ☆
R	CD80 (B7-1)	242913B11	Human	98384		●	☆	●	☆ ●	● ☆
	CD80	16-10A1	Mouse	65076		●	●	●	●	● ●
R	CD80	3H5	Rat	65217		●	●	●	☆ ☆	● ☆
R	CD81	241722G4	Human	98202		●	☆	●	☆ ☆	☆ ☆
R	CD81	5A6	Human	65195		●	●	●	● ●	● ●
	CD81	EAT2	Mouse	65220		●		●	● ●	● ●
R	CD82	241765F7	Human	98278		●	☆	☆	☆ ☆	☆ ☆
R	CD83	241002B7	Mouse	98119		●	☆	●	☆ ●	● ☆
R	CD84	241345A3	Human	98108	✓	●	☆	☆	● ☆	● ☆
R	CD84	240903B8	Mouse	98076		●	☆	☆	☆ ☆	☆ ☆
R	CD85a	241894C10	Human	98237	✓	●	☆	●	● ●	● ☆
R	CD85j (LILRB1)	GHI/75	Human	65238	✓	●	☆	●	● ●	● ☆
R	CD86	240429C6	Human	98043	✓	●	●	●	● ●	● ●
R	CD86	BU63	Human	65165		●	●	●	● ●	● ●
	CD86	IT2.2	Human	65118		●	☆	●	● ☆	● ●
R	CD86	230476B8	Mouse	98025	✓	●	●	●	☆ ●	● ●
	CD86	GL1	Mouse	65068		●	●	●	● ●	● ●
	CD86	24F	Rat	65224	✓	●	☆	●	☆ ●	☆ ●
R	CD87 (uPAR)	240366G10	Human	98048	✓	●	●	●	● ●	● ●
R	CD88 (C5AR1)	241712D4	Human	98226	✓	●	☆	☆	● ☆	☆ ☆
R	CD89	241426E3	Human	98105	✓	●	☆	☆	● ☆	● ☆
R	CD90	241290B2	Human	98126	✓	●	●	●	● ●	● ●
R	CD90	241388F3	Rat	98162	✓	●	☆	●	☆ ●	● ☆
	CD90.2	30-H12	Mouse	65088		●	●	●	● ●	● ●
R	CD91 (LRP1)	5A6	Human	65233	✓	●	●	●	● ●	● ●
R	CD93	242464E6	Human	98337	✓	●	☆	●	☆ ●	● ☆

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD94	241704E11	Human	98172	✓	●	☆	☆	☆ ☆	● ☆
R	CD94	18D3	Mouse	65240		●	●	●	● ●	● ●
R	CD95 (Fas)	240340E11	Human	98034		●	●	●	☆ ●	● ●
R	CD95	241229C11	Mouse	98135	✓	●	☆	●	☆ ●	● ☆
R	CD96	242964G12	Human	98386		●	☆	☆	☆ ☆	☆ ☆
	CD96	NK92.39	Human	65250		●	☆	●	● ●	● ☆
R	CD97	241335D8	Human	98094	✓	●	☆	☆	● ☆	☆ ☆
R	CD98 (SLC3A2)	241755D6	Human	98190		●	☆	☆	☆ ☆	☆ ☆
R	CD98	241247F1	Mouse	98128	✓	●	☆	☆	● ☆	☆ ☆
R	CD99	241737H1	Human	98174	✓	●	☆	●	● ●	● ☆
R	CD100	242691F8	Human	98345		●	☆	☆	☆ ☆	☆ ☆
R	CD102 (ICAM-2)	242237F8	Human	98367	✓	●	☆	☆	● ☆	● ☆
	CD103	2E7	Mouse	65047		●	●	●	● ●	● ●
R	CD105 (Endoglin)	241196D9	Human	98013	✓	●	☆	☆	● ☆	● ☆
R	CD105	242305E7	Mouse	98290		●	☆	●	☆ ●	● ☆
R	CD106 (VCAM-1)	241283G8	Human	98079		●	☆	☆	☆ ☆	☆ ☆
R	CD106	240597C2	Mouse	98059	✓	●	☆	☆	☆ ☆	☆ ☆
R	CD107a (LAMP1)	242116E8	Human	98266		●	☆	●	☆ ●	● ☆
R	CD107a	H4A3	Human	65051		●	●	●	● ●	● ●
	CD107a	1D4B	Mouse	65050		●	●	●	● ●	● ●
R	CD107b	H4B4	Human	65053	✓	●	●	●	● ●	● ●
	CD107b	ABL-93	Mouse	65052		●		●	☆ ●	●
R	CD112 (Nectin-2)	241725D3	Human	98283	✓	●	☆	☆	● ☆	☆ ☆
R	CD112	241798A11	Mouse	98231	✓	●	☆	●	● ●	● ☆
R	CD115 (c-fms)	250001D7	Human	98379		●	☆	☆	☆ ☆	☆ ☆
	CD115	AFS98	Mouse	65095		●		●	☆	●
R	CD116	241266B11	Human	98066	✓	●	●	●	● ● ●	● ●
R	CD116	241889A5	Mouse	98196		●	☆	●	● ●	● ☆
R	CD117 (c-Kit)	241313C5	Human	98377		●	☆	●	● ●	● ☆
R	CD117	240246C11	Mouse	98041	✓	●	☆	●	● ●	● ☆
	CD117	2B8	Mouse	65054		●		●	● ●	●
R	CD119 (IFNGR1)	242632A8	Human	98343		●	☆	☆	☆ ☆	☆ ☆
	CD119	GIR-208	Human	65294		●	☆	☆	☆ ☆	☆ ☆
R	CD119	241832H4	Mouse	98201		●	☆	☆	☆ ☆	☆ ☆
R	CD120a (TNFR1)	241337H6	Human	98085		●	☆	☆	● ☆	● ☆
R	CD120b	230328B6	Human	98010		●	☆	●	☆ ☆	☆ ☆

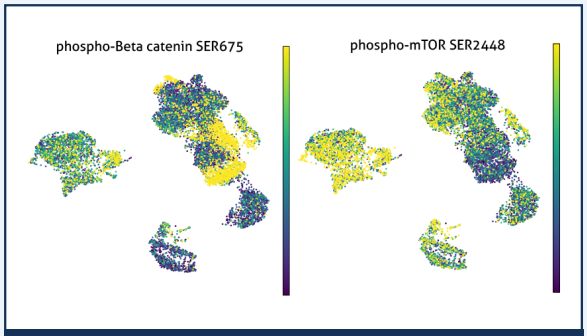
R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

proteintech® genomics

A New Era of Single-cell Multiomics, Discovery Beyond Expectations: Introducing the MultiPro Human Discovery Panel!

Key Features:

- **Unparalleled Multiplexing** | Includes 347 DNA-barcoded antibodies for single-cell multiomic analysis
- **Extensive Target Diversity** | Profiles transcription factors, cytokines, phosphoproteins, metabolic regulators, and more!
- **Broad Applicability** | Validated across diverse cell types and experimental conditions.
- **Seamless Integration** | Fully compatible with 10x Genomics Chromium Flex chemistry and Feature Barcode Technology (including GEM-X Flex).
- **Exceptional Value** | Provides more than double the antibody coverage at less than half the cost (<$500/rxn) of competing solutions.



Detection of phospho-Beta Catenin and phospho-mTOR

Discover more at **ptglab.com**

Antibody Sampler Kits

Curated and validated collections of antibodies at a discounted price

- Cell Signaling
- RNA Methylation
- Cell Death
- EMT
- Exosome
- Neural Marker

View all kits

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD120b	240200D4	Mouse	98021		●	☆	●	☆ ●	☆ ☆
R	CD121a (IL-1R1)	242245A10	Human	98282		●	☆	☆	☆ ☆	☆ ☆
R	CD121b (IL-1R2)	242602C1	Mouse	98347	✓	●	☆	☆	☆ ☆	☆ ☆
R	CD122 (IL-2RB)	241677H7	Human	98151		●	☆	☆	☆ ☆	☆ ☆
R	CD123	241268E3	Human	98107	✓	●	●	●	● ●	● ●
	CD123	HI12H7	Human	65256		●	☆	●	● ☆	● ●
R	CD124	241824D8	Human	98203	✓	●	☆	☆	● ☆	☆ ☆
R	CD124	242262F10	Mouse	98276		●	☆	☆	☆ ☆	☆ ☆
R	CD126	240734A7	Human	98057		●	☆	●	☆ ●	● ☆
R	CD126	230371A7	Mouse	98024	✓	●	☆	●	● ●	☆ ☆
R	CD127 (IL-7RA)	240749H2	Human	98074	✓	●	☆	●	● ●	● ☆
R	CD127	242852B4	Mouse	98385		●	☆	☆	☆ ☆	☆ ☆
	CD127	A7R34	Mouse	65093		●		●	☆	●
R	CD130	242236B6	Mouse	98275		●	☆	☆	☆ ☆	☆ ☆
R	CD131 (IL-3RB)	241823B12	Human	98336		●	☆	☆	☆ ☆	☆ ☆
R	CD131	241954C1	Mouse	98232		●	☆	●	☆ ●	● ☆
R	CD132 (IL-2RG)	242020H6	Human	98234		●	☆	☆	☆ ☆	☆ ☆
R	CD134	241398G7	Human	98181	✓	●	☆	●	● ●	● ☆
R	CD134	242901A7	Mouse	98409		●	☆	☆	☆ ☆	☆ ☆
	CD134	OX-86	Mouse	65136		●		●	● ●	●
R	CD135 (FLT3)	241414F8	Human	98106	✓	●	☆	☆	● ☆	● ☆
R	CD137 (TNFRSF9)	241344F3	Human	98112		●	☆	☆	● ☆	☆ ☆
R	CD137	241647E11	Mouse	98182	✓	●	☆	●	● ●	● ☆
R	CD138 (Syndecan-1)	240422C4	Human	98051		●	☆	●	☆ ☆	● ☆
R	CD138	241278C7	Mouse	98152		●	☆	☆	☆ ☆	☆ ☆
R	CD140a (PDGFRa)	241658H4	Human	98141	✓	●	☆	●	● ●	● ●
R	CD140a	242025B3	Mouse	98256		●	☆	☆	☆ ☆	☆ ☆
R	CD140b (PDGFRb)	242711A9	Human	98405		●	☆	☆	☆ ☆	☆ ☆
R	CD140b	241754F6	Mouse	98207	✓	●	☆	●	● ●	● ☆
R	CD141	240365H3	Human	98037		●	☆	☆	☆ ☆	☆ ☆
R	CD142	240784E2	Human	98104	✓	●	●	●	● ●	● ●
R	CD142	240875G1	Mouse	98114		●	☆	☆	☆ ☆	☆ ☆
R	CD144 (VE-cadherin)	240755B2	Human	98071	✓	●	☆	●	● ●	● ☆
R	CD144	241953D4	Mouse	98251	✓	●	☆	☆	☆ ☆	☆ ☆
	CD146 (MCAM)	P1H12	Human, Mouse, Rabbit, Canine	65181		●	●	●	● ●	● ●

R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD147	241852B4	Mouse	98229						
R	CD150 (SLAM)	241800B12	Human	98220	✓					
R	CD152 (CTLA-4)	240793E8	Human	98078						
R	CD152	241100B8	Mouse	98147	✓					
R	CD154 (CD40L)	242847F7	Human	98355						
R	CD154	240743E6	Mouse	98120	✓					
	CD154	MR1	Mouse	65129						
R	CD155 (PVR)	241405G8	Human	98186						
R	CD155	SKII.4	Human	65251	✓					
R	CD155	240731B1	Mouse	98077						
R	CD157	241424H5	Human	98146	✓					
R	CD157	241822H1	Mouse	98213						
R	CD158b2 (KIR2DL3)	242282E11	Human	98373						
R	CD158e (KIR3DL1)	243022H8	Human	98389						
R	CD160	241415F2	Human	98111	✓					
R	CD161 (KLRB1)	242140H5	Human	98281						
	CD161 (NK1.1)	PK136	Mouse	65138						
R	CD161	241840F3	Rat	98249						
R	CD162 (SELPG)	241297F10	Human	98084	✓					
R	CD163	GHI/61	Human	65169	✓					
R	CD164	241950F3	Human	98239						
R	CD164	242986C2	Mouse	98419						
R	CD166 (ALCAM)	3A6	Human	65223	✓					
R	CD167 (DDR1)	241796D6	Human	98200						
R	CD171 (L1CAM)	240978A7	Human	98130	✓					
R	CD172a (SIRPa)	240789E1	Human	98101	✓					
R	CD172a	241794D9	Mouse	98225	✓					
R	CD172b (SIRPb1)	242115C10	Human	98267						
R	CD177	241339F4	Human	98086	✓					
R	CD178	NOK-1	Human	65598						
R	CD178	242892G9	Rat	98430						
R	CD182 (CXCR2)	242766G3	Mouse	98353						
R	CD184 (CXCR4)	241735F8	Human	98175	✓					
R	CD184	241956H2	Mouse	98233						
R	CD200	241329G4	Human	98091						
	CD200	OX90	Mouse	65230						
R	CD200	240391A6	Mouse	98039						
R	CD200R1	241453E7	Mouse	98155						
R	CD201 (EPCR)	241806D7	Human	98325	✓					

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD201	241853A7	Mouse	98248			☆	☆	☆ ☆	☆ ☆
R	CD202b (Tie-2)	241753F12	Mouse	98219	✓		☆	●	● ●	● ☆
	CD206	15-2	Human	65155			☆	●	● ☆	● ☆
R	CD206	240344D12	Mouse	98031	✓		☆	●	● ● ●	● ● ●
R	CD207	242303C1	Human	98368			☆	☆	☆ ☆	☆ ☆
R	CD209	240907A4	Human	98156	✓		☆	●	● ●	● ☆
R	CD212 (IL-12RB1)	241661H1	Human	98149	✓		☆	☆	● ☆	● ☆
R	CD213a1 (IL-13Ra1)	241834A1	Human	98216			☆	☆	☆ ☆	☆ ☆
R	CD213a2 (IL-13RA2)	242742C4	Mouse	98407			☆	☆	☆ ☆	☆ ☆
R	CD215 (IL-15RA)	242618B9	Mouse	98406			☆	☆	☆ ☆	☆ ☆
R	CD217 (IL-17RA)	241891G7	Human	98271	✓		☆	☆	● ☆	● ☆
R	CD218a (IL-18R1)	241673D3	Human	98150			☆	☆	☆ ☆	☆ ☆
R	CD220 (INSR)	241687A10	Human	98227	✓		☆	●	● ●	● ☆
R	CD221 (IFG1R)	241679A6	Human	98144	✓		☆	☆	● ☆	● ☆
R	CD223 (LAG-3)	241294E11	Mouse	98167	✓		☆ ●	☆	● ☆	☆ ☆
	CD223	C9B7W	Mouse	65098			●	●	● ●	● ●
R	CD226	11A8	Human	65247	✓		●	●	● ●	● ●
R	CD226	240673G4	Human	98002			☆	●	☆ ☆	● ☆
R	CD229 (SLAMF3)	242312D12	Mouse	98274			☆	●	☆ ●	● ☆
R	CD235a	242822E1	Human	98370			☆	☆	☆ ☆	☆ ☆
	CD235a	HIR2	Human	65174			●	●	● ●	● ●
R	CD235a	242129D10	Mouse	98269			☆	☆	☆ ☆	☆ ☆
R	CD244	241260G10	Human	98133	✓		●	●	● ●	● ●
	CD244	2B4.69	Human	65270			●	●	● ●	● ●
R	CD253 (TRAIL)	241419D2	Human	98139			☆	☆	☆ ☆	☆ ☆
R	CD258 (LIGHT)	240694D7	Human	98063	✓		☆	●	● ●	● ☆
R	CD262 (DR5)	242319H8	Human	98273	✓		☆	☆	● ☆	☆ ☆
R	CD266 (TWEAKR)	240991C5	Human	98125	✓		☆	☆	● ☆	● ☆
R	CD266	241646F11	Mouse	98382			☆	☆	☆ ☆	☆ ☆
R	CD267 (TNFRSF13B)	241317D8	Human	98100			☆	☆	☆ ☆	☆ ☆
R	CD268 (BAFF-R)	242003A1	Human	98254			☆	☆	☆ ☆	☆ ☆
R	CD268	243120H8	Mouse	98404			☆	☆	☆ ☆	☆ ☆
R	CD269 (BCMA)	241731A11	Human	98215	✓		☆	☆	☆ ●	● ●
R	CD271 (NGFR)	242634B10	Mouse	98391			☆	☆	☆ ☆	☆ ☆
R	CD272 (BTLA)	241318H5	Human	98096	✓		☆	●	● ●	● ☆
R	CD272	242133A1	Mouse	98246			☆	☆	☆ ☆	☆ ☆
R	CD273 (PD-L2)	241728D8	Mouse	98241			☆	●	☆ ☆	☆ ☆

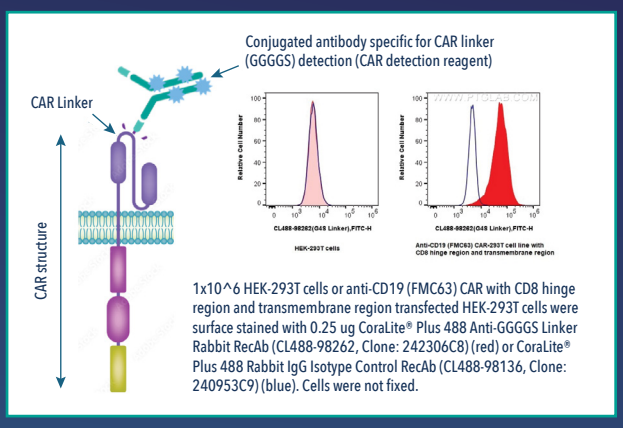
R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD274 (PD-L1)	240721H8	Human	98062	✓	●	☆	●	● ●	● ☆
	CD274	29E.2A3	Human	65081		●	☆	●	● ●	● ☆
R	CD274	240993E1	Mouse	98166	✓	●	☆	☆	● ●	● ●
	CD274	10F.9G2	Mouse	65073		●		●	●	●
R	CD275 (B7-H2)	242241C8	Human	98358		●	☆	☆	☆ ☆	☆ ☆
R	CD275	240243G5	Mouse	98058		●	☆	☆	☆ ☆	☆ ☆
R	CD276 (B7-H3)	230305A10	Human	98017	✓	●	☆	●	● ●	● ☆
	CD276	MJ18	Mouse	65221		●	●	●	☆ ●	☆
R	CD278 (ICOS)	241770G11	Human	98214	✓	●	☆	☆	● ☆	● ☆
R	CD278	242639C3	Mouse	98341		●	☆	☆	☆ ☆	☆ ☆
R	CD279 (PD-1)	240724G11	Human	98068	✓	●	●	●	● ●	● ☆
	CD279	J110	Human	65119		●	●	●	● ●	● ●
R	CD279	EH12.2H7	Human, Primates	65168	✓	●	●	●	● ● ●	● ●
R	CD279	240389B8	Mouse	98080		●	☆	●	☆ ●	● ●
	CD279	J43.1	Mouse	65120		●		●	●	●
	CD279	RMP1-30	Mouse	65142		●	●	●	●	●
R	CD283 (TLR3)	230445F1	Human	98016	✓	●	☆	☆	● ●	● ☆
R	CD284 (TLR4)	242067C1	Human	98327		●	☆	☆	☆ ☆	☆ ☆
R	CD284	230463C7	Mouse	98018	✓	●	☆	☆	☆ ●	● ☆
R	CD299 (DC-SIGNR)	241683G8	Human	98205	✓	●	☆	☆	☆ ☆	☆ ☆
R	CD300a	242131H4	Human	98268		●	☆	●	☆ ●	● ☆
R	CD300e	242031C10	Human	98235	✓	●	☆	☆	● ☆	● ☆
R	CD301 (CLEC10A)	241857C11	Human	98245	✓	●	☆	●	● ●	● ☆
R	CD302	242903G5	Human	98413		●	☆	☆	☆ ☆	☆ ☆
R	CD304 (Neuropilin 1)	241812B11	Human	98210		●	☆	☆	☆ ☆	☆ ☆
R	CD305 (LAIR1)	241805G2	Human	98326		●	☆	☆	☆ ☆	☆ ☆
R	CD305	242226E10	Mouse	98286		●	☆	☆	☆ ☆	☆ ☆
R	CD309 (VEGFR2)	230238B11	Human	98009	✓	●	☆	☆	● ●	● ☆
R	CD309	240214D7	Mouse	98027	✓	●	☆	●	● ●	● ●
R	CD312 (EMR2)	242042B11	Human	98260		●	☆	☆	☆ ☆	☆ ☆
R	CD314 (NKG2D)	1D11	Human	65188		●	●	●	● ●	● ●
	CD314	CX5	Mouse	65100		●		☆	☆	☆
R	CD318 (CDCP1)	242428F9	Human	98294		●	☆	☆	☆ ☆	☆ ☆
R	CD319 (SLAMF7)	241321F11	Human	98093	✓	●	☆	☆	● ☆	☆ ☆
R	CD319	242629G1	Mouse	98342		●	☆	☆	☆ ☆	☆ ☆
R	CD321 (JAM-A)	242290B3	Human	98328		●	☆	☆	☆ ☆	☆ ☆
R	CD322 (JAM-B)	242617F10	Human	98390		●	☆	☆	☆ ☆	☆ ☆
R	CD324 (E-cadherin)	241098F7	Human	98123	✓	●	☆	●	● ●	● ●

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CD324	241282C1	Mouse	98140	✓	●	☆	☆	● ●	● ☆
	CD324	DECMA-1	Mouse	65241		●		☆	●	● ●
R	CD324	242018A7	Rat	98323	✓	●	☆	☆	☆ ●	● ☆
R	CD325 (N-cadherin)	230259D7	Human	98006	✓	●	☆	☆	● ●	● ☆
R	CD327 (Siglec-6)	243088G2	Human	98416		●	☆	☆	☆ ☆	☆ ☆
R	CD328 (Siglec-7)	241525H1	Human	98183		●	☆	☆	☆ ☆	☆ ☆
R	CD329 (Siglec-9)	241799C10	Human	98264		●	☆	☆	☆ ☆	☆ ☆
R	CD332 (FGFR2)	241383D11	Human	98244		●	☆	☆	☆ ☆	☆ ☆
R	CD334 (FGFR4)	242713H4	Human	98383		●	☆	☆	☆ ☆	☆ ☆
R	CD335 (NKp46)	242549D12	Human	98340		●	☆	☆	☆ ☆	☆ ☆
R	CD335	241804A12	Mouse	98198		●	● ●	●	☆ ●	● ● ●
R	CD335	241811E9	Rat	98250		●	☆	☆	☆ ☆	☆ ☆
R	CD336	242228B9	Human	98371		●	☆	☆	☆ ☆	☆ ☆
R	CD339 (Jagged1)	241412A6	Human	98243		●	●	☆	☆ ●	● ●
R	CD340 (HER2)	241366E6	Mouse	98153	✓	●	☆	☆	● ●	● ☆
R	CD354 (TREM-1)	241279D10	Human	98154	✓	●	☆	☆	● ☆	● ☆
R	CD354	240219H1	Mouse	98022		●	☆	●	☆ ●	● ☆
R	CD355	241280B12	Human	98157		●	☆	☆	☆ ☆	☆ ☆
R	CD362 (SDC2)	242939A12	Mouse	98399		●	☆ ●	☆	☆ ☆	☆ ☆
R	CD366 (TIM3)	241422H1	Human	98115		●	☆ ●	●	☆ ☆	☆ ☆
R	CD370 (CLEC9A)	242895F4	Mouse	98395		●	☆	☆	☆ ☆	☆ ☆
R	CD371 (CLEC12A)	240791B7	Human	98083		●	☆	☆	☆ ☆	☆ ☆
R	CD371	242620B12	Mouse	98357		●	☆	☆	☆ ☆	☆ ☆

Chimeric Antigen Receptor (CAR) detection reagent

The CAR detection reagent is a GGGGS linker flow cytometry-validated monoclonal antibody that specifically recognizes the glycine-serine linker sequence present in single-chain variable fragment (scFv)-based CAR constructs, enabling reliable detection and monitoring of CAR-T and CAR-NK cells.



1x10^6 HEK-293T cells or anti-CD19 (FMC63) CAR with CD8 hinge region and transmembrane region transfected HEK-293T cells were surface stained with 0.25 ug CoraLite® Plus 488 Anti-GGGGS Linker Rabbit RecAb (CL488-98262, Clone: 242306C8) (red) or CoraLite® Plus 488 Rabbit IgG Isotype Control RecAb (CL488-98136, Clone: 240953C9) (blue). Cells were not fixed.

- Highly specific CAR detection.
- Detection across different CAR designs.
- No interference with CAR function.
- Available in multiple assay formats.
- FcZero-rAb™ version available.

Discover more

Other Extracellular Targets

R	Target	Clone	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	Beta-2-Microglobulin	241308D5	Human	98165						
R	EGFR	242684A1	Human	98344						
R	F4/80	241959G4	Mouse	98236	✓					
R	FceR1a	242008G6	Mouse	98289	✓					
R	Galectin-3	242453H5	Mouse	98335						
R	GGGGS Linker	242306C8	Human	98262	✓					
	GL7	GL-7	Mouse	65261						
R	gp130/IL-6ST	242292C9	Human	98121						
R	GPR56	242249A7	Human	98291						
R	HER2/ErbB2	241366E6	Mouse	98153	✓					
	HLA class I ABC	5C5B7	Human, Pig	66013						
R	HLA-DR	L243	Human	65218	✓					
R	IFNAR1	230549B1	Human	98067	✓					
R	IL-1RAP	240756A12	Human	98073	✓					
R	IL-10RB	242302D2	Human	98292						
R	IL-23R	240905B5	Human	98180						
	Integrin beta-7 (LPAM-1)	FIB504	Mouse	65213						
	Integrin beta-7	DATK32	Mouse	65101						
R	KIM-1/HAVCR1	242001E8	Human	98238						
	KLRG1	2F1	Mouse	65084						
R	Ly-6C	HK1.4	Mouse	65296						
R	Ly-6G (Gr-1)	242141B11	Mouse	98284	✓					
	Ly-6G (Gr-1)	1A8	Mouse	65078						
	Ly-6G/Ly-6C (Gr-1)	RB6-8C5	Mouse	65140						
R	MHC Class II (I-A/I-E)	M5/114.15.2	Mouse	65122	✓					
R	MICA/MICB	6D4	Human	65161						
R	MICA/MICB	240735D5	Human	98110	✓					
R	PLVAP	MECA-32	Mouse	65214	✓					
R	PSMA/GCPII	242026E6	Human	98279						
R	Siglec-8	241275A5	Human	98177	✓					
R	STRO-1	STRO-1	Human	65184						
	TER-119	TER-119	Mouse	65149						
R	TIGIT	240423C7	Human	98023						
R	TIGIT	242242F11	Mouse	98285						
R	TNFSF8/CD30L	241831D9	Human	98253						
R	TNFSF8/CD30L	241012G10	Mouse	98113						
R	VISTA	241003C8	Human	98109	✓					

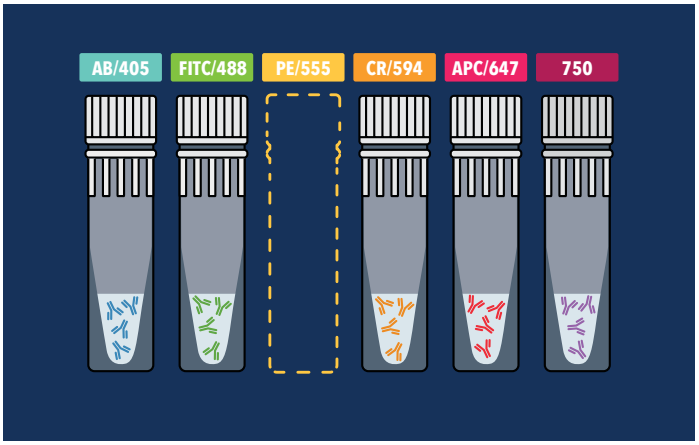
ISOTYPE CONTROLS

Isotype controls are antibodies raised against antigens that are not present in cells, and are used as a form of negative control, in place of the target antibody, to assess the level of non-specific binding. These controls should be the same host, class, and subclass, and conjugated to the same fluorophore as the target antibody.

Isotype	Clone	Catalog No.	Pure	Violet	Blue	Yellow	Red
Armenian Hamster IgG	PIP	65210	●	●	●	● ☆	● ☆
Mouse IgG1	MOPC-21	65124	●	●	● ●	● ●	● ●
Mouse IgG2a	C1.18.4	65208	●	●	●	● ●	● ●
Mouse IgG2aκ	MOPC-173	65244	●	● ●	●	● ● ●	● ● ●
Mouse IgG2b	MPC-11	65128	●	●	●	● ● ●	● ●
Mouse IgM	MOPC-104e	65243	●	●	●	● ●	● ●
Rat IgG1	HRPN	65212	●	●	●	● ●	● ●
Rat IgG2a	2A3	65209	●	●	●	● ●	● ●
Rat IgG2b	LTF-2	65211	●		●	●	●
Rabbit IgG	240953C9	98136	●	● ●	●	● ● ● ●	● ● ●

FLOW PANELS

Panel design for flow cytometry can be an intimidating beginning, especially for beginner and occasional flow users. Proteintech's flow cytometry panels can get you started on the right foot with all the markers necessary to find your target cells. They are expert designed and verified, include transparent and rigorous validation data, and keep the PE channel open for your target of interest.



Catalog No	Product Name	Targets Included
PK30007	Human T-Cell Basics Panel	CD3, CD4, CD8a, CD45, CD19
PK30008	Human B-Cell Basics Panel	CD3, CD45, CD19, CD20, CD21
PK30009	Human NK Cell Basics Panel	CD3, CD7, CD16, CD56, CD226
PK30010	Human Monocyte Basics Panel	CD3, CD14, CD16, CD64, HLA-DR
PK30011	Human Memory/Naïve T Cell Basics Panel	CD3, CD4, CD8a, CD45RA, CD45RO
PK30012	Human TBNK Basics Panel	CD3, CD4, CD8a, CD19, CD56
PK30013	Mouse Activated T-Cell Panel	CD3e, CD4, CD8a, CD69, CD25

Part of the Uni-rAb™ family

Next Generation Flow Cytometry Antibodies

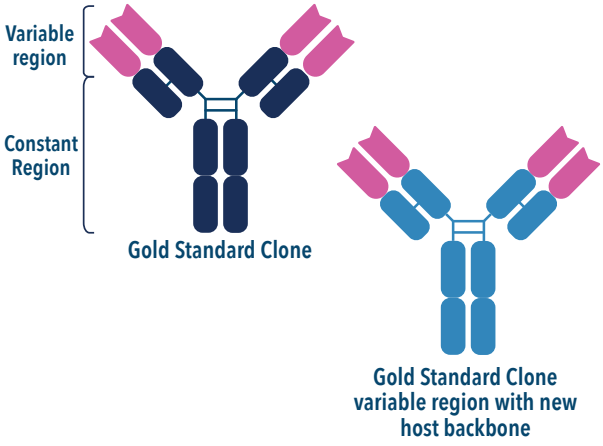
Reimagine. Redefine. Recombine.

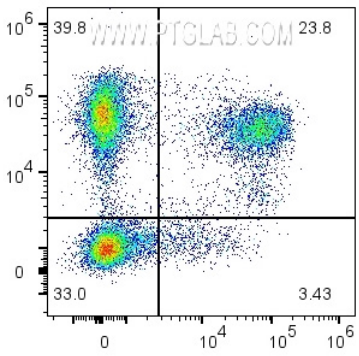
- Consistent performance
- Continuous supply
- Conjugation ready formulations

Recombinant antibodies are available for clones and targets marked by an R throughout this catalog.

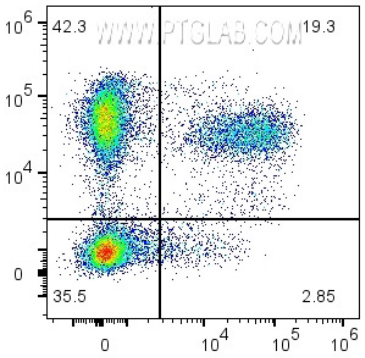
Gold Standard Clones - *Reimagined*

The antigen-binding region of top-cited clones for flow cytometry have been recombined with Mouse IgG2a backbones for the consistency of recombinant antibodies and the performance of gold-standard clones you know and trust.

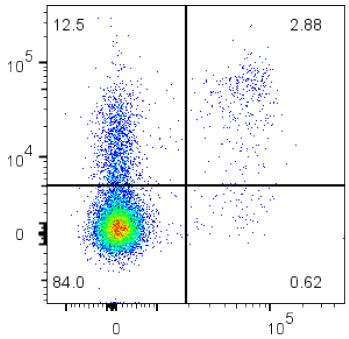




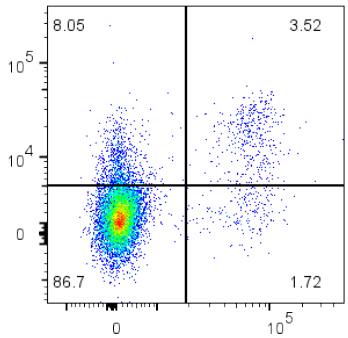
Recombinant CD8 (UCHT4) with Rabbit IgG backbone



Traditional CD8 (UCHT4) Mouse Monoclonal



NEW CD200 Recombinant Antibody (241347E1)



Traditional CD200 (OX-104) from other vendor

De novo recombinant clones optimized for flow cytometry

Proteintech recombinant antibody clones are carefully selected after multiple rounds of validation in applications such as ELISA, flow cytometry, WB, and IHC. Recombinant antibodies for flow cytometry are validated with both fixed and unfixed staining (if applicable) to find the clone with the best signal intensity and lowest background.

Part of the Uni-rAb™ family

FcZero-rAb

for Flow Cytometry

Zero Fc receptor binding

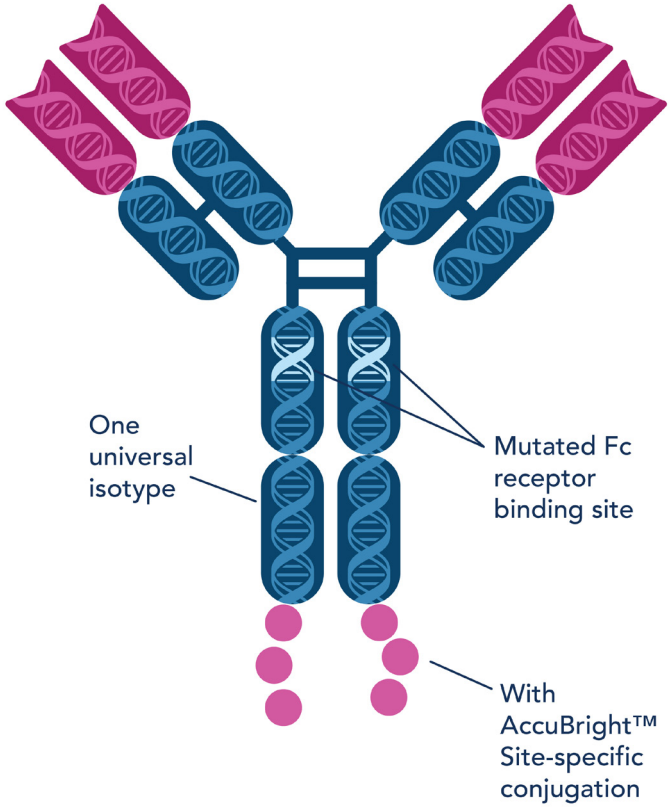
Recombinant antibodies with Proteintech's new FcZero backbone eliminates the need for Fc receptor block and simplifies your protocol.

Site-specific conjugation

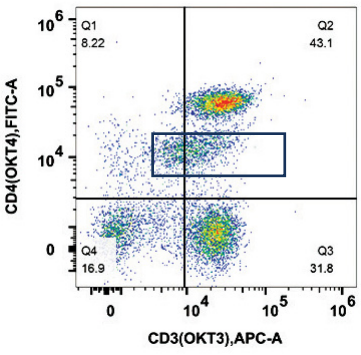
FcZero-rAb with AccuBright™ features site-specific, stoichiometric conjugation for precise control of degree of labeling, increased brightness, and removes the risk of fluorophores blocking the antigen-binding region.

Part of the Uni-rAb family

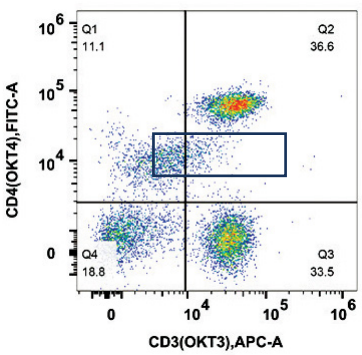
Uni-rAb recombinant monoclonal antibodies are developed using Proteintech's Antigen-Specific B-Cell Cloning & Engineering (ABCE™) Platform for optimized specificity, affinity, purity, and consistency.



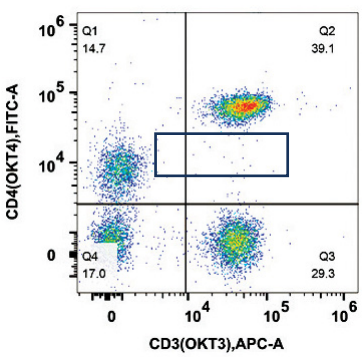
FcZero-rAb™ Recombinant Antibodies for Flow Cytometry eliminates background due to non-specific binding to Fc receptors, resulting in cleaner data.



Conventional Monoclonal



Conventional Monoclonal + FcR block



FcZero-rAb™

Antibodies for INTRACELLULAR MARKERS

For more products

Fluorophore Key

Common laser	Violet (405nm)	Blue (488nm)		Yellow (561nm)				Red (638nm)		
Common filter	450/45	525/40	690/50	585/42	610/20	690/50	780/60	660/10	712/25	780/60

For more information about Proteintech's fluorophore offering, see page 5

Cytokines and Chemokines

Cytokines are significant cell signaling molecules that can be analyzed by flow cytometry. They are stained intracellularly and can be detected in combination with surface marker staining. Cytokine profiling by flow cytometry can characterize the inflammatory state of specific immune cell subsets.

R	Target	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	CCL2/MCP-1	Human	98044	✓	●	☆	☆	☆ ☆	☆ ☆
R	CCL2/MCP-1	Mouse	98028		●	●	●	☆ ●	● ●
R	CCL3/MIP-1	Mouse	98194	✓	●	☆	☆	☆ ☆	● ☆
R	CCL20/MIP-3 alpha	Human	98221		●	☆	☆	☆ ☆	☆ ☆
R	CCL22/MDC	Human	98280		●	☆	☆	☆ ☆	☆ ☆
R	CXCL1	Mouse	98047		●	☆	●	☆ ●	● ☆
R	CXCL2	Mouse	98259	✓	●	☆	●	● ●	● ☆
R	CXCL4/PF4	Human	98410		●	☆	☆	☆ ☆	☆ ☆
R	CXCL4/PF4	Mouse	98397		●	☆	☆	☆ ☆	☆ ☆
R	CXCL5	Mouse	98417		●	☆	☆	☆ ☆	☆ ☆
R	CXCL9/MIG	Human	98211	✓	●	☆	☆	● ☆	● ☆
R	CXCL10/IP-10	Human	98265		●	☆	☆	☆ ☆	☆ ☆
R	GM-CSF	Human	98050		●	☆	☆	☆ ☆	☆ ☆
R	GM-CSF	Mouse	98014		●	☆	●	☆ ☆	● ☆
R	Granzyme B	Human	98070	✓	●	☆	●	● ● ●	● ☆
R	IFN beta	Mouse	98082		●	☆	☆ ●	☆ ●	☆ ☆
R	IFN gamma	Human	98187		●	☆	●	☆ ●	● ☆
R	IFN gamma	Mouse	98045		●	●	●	☆ ●	● ●
	IFN gamma	Mouse	65153		●		●	●	●
R	IFN gamma	Rat	98001		●	☆	●	● ●	● ☆
R	IL-1 alpha	Mouse	98052		●	☆	●	☆ ●	● ☆
R	IL-1 beta	Human	98142	✓	●	☆	☆	● ☆	● ☆
	IL-1 beta	Human	65276		●	●	●	● ☆	● ●
R	IL-1 beta	Mouse	98179		●	☆	☆	☆ ☆	☆ ☆

R	Target	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	IL-1 beta	Rat	98310						
	IL-1F10	Human	60319						
R	IL-2	Human	98053	✓					
R	IL-2	Mouse	98055	✓					
R	IL-2	Rat	98046	✓					
R	IL-4	Human	98138	✓					
	IL-4	Human	66142						
R	IL-4	Mouse	98360						
	IL-4	Mouse	65074						
R	IL-4	Rat	98255						
R	IL-5	Human	98178						
R	IL-5	Mouse	98352						
R	IL-6	Human	98087						
R	IL-6	Mouse	98089						
R	IL-7	Human	98206						
	IL-7	Human	65281						
R	IL-8/CXCL8	Human	98137						
	IL-10	Human	65286						
	IL-12 p35	Human	65277						
R	IL-12/23 p40	Human	98277						
	IL-12/23 p40	Mouse	65097						
R	IL-12/23 p40	Mouse	98004						
R	IL-13	Human	98159						
R	IL-13	Mouse	98003						
R	IL-15	Mouse	98036						
R	IL-17A	Mouse	98005						
R	IL-17F	Mouse	98019						
	IL-18	Human	60070						
R	IL-19	Mouse	98431						
R	IL-21	Mouse	98015						
R	IL-23 p19	Mouse	98392						
	IL-27	Human	66164						
R	IL-28A	Mouse	98388						
	M-CSF	Human	65283						
R	TNF Alpha	Human	98064						
	TNF Alpha	Human	69002						
R	TNF Beta	Human	98056						
R	TNFSF4/OX40L	Mouse	98381						

R *This clone is available as a recombinant antibody*

☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Reactivity	Catalog No.	FcZero	Pure	Violet	Blue	Yellow	Red
R	TNFSF8/CD30L	Human	98253						
R	TNFSF8/CD30L	Mouse	98113						
R	TNFSF9/4-1BBL	Human	98163	✓					
R	TNFSF13/APRIL	Mouse	98331						
R	TNFSF18	Human	98403						
R	TSLP	Human	98247						

Transcription Factors and Cell Signaling

Transcription factors and other cell signaling molecules are critical targets for understanding the functional activity of a cell. They can be used alongside CD markers to analyze the functional profile of specific cell types within a heterogenous population.

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
	AATF	Human, Mouse, Rat	67868					
	ACC1	Human, Mouse, Rat	67373					
R	Phospho-ACC1 (Ser79)	Human, Mouse	80281-2					
R	Phospho-AKT (Thr308)	Human, Mouse, Rat	81232-10					
	Phospho-AKT (Ser 473)	Human, Mouse, Rat	66444					
R	AKT1	Human, Mouse, Rat	80816-1					
R	Phospho-AKT1 (Ser473)	Human, Mouse	80462-1					
	ATF4	Human	60035					
R	BCL2	Human	80313-1					
R	BCL2	Mouse	82469-6					
R	Phospho-BCL2 (Ser70)	Human	80771-2					
	BCL6	Human	66340					
	BCLAF1	Human, Mouse, Rat	67860					
	Beta Catenin	Human, Mouse, Rat, Pig	66379					
R	Phospho-Beta Catenin (Ser33)	Human, Mouse, Rat	80067-1					
	BMP-7	Human	69011					
	c-MYC	Human, Mouse, Rat	67447					
	C1QBP	Human, Mouse	68084					
R	Caspase 1	Human	84735-1					
R	Caspase 3/P17/P19	Human, Mouse	82202-1					
	Cleaved Caspase 3/P17/P19	Human, Mouse, Rat	68773					
	Caspase 7	Human, Mouse, Rat	67956					
	Caspase 8/P43/P18	Human, Mouse	13423					
	Caspase 9/p35/p10	Human, Mouse, Rat	10380					
R	Phospho-Caspase 9 (Ser196)	Human, Mouse	80346-1					
R	Caspase 10	Human	85196-3					
	CBFB	Human	67885					
R	Phospho-CHEK2 (Thr68)	Human	81740-1					

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
	CRCP	Human, Mouse, Rat	14348			●	●	●
	CREB1	Human, Mouse, Rat, Monkey	12208			●	●	●
R	Phospho-CREB1 (Ser133)	Human, Mouse	81871-1				●	
	CREB3L1,OASIS	Human, Mouse, Rat	67617			●		
	DDX3	Human, Rat	67915	●	☆	●	☆ ☆	☆ ☆
R	DDX39A	Human, Mouse	83083-5	●	☆	●	☆ ☆	☆ ☆
R	EGFR	Human	83806-1	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-EGFR (Tyr869)	Human	84839-1	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-EGFR (Tyr1197)	Human	84906-1	●	☆	☆	☆ ☆	☆ ☆
R	EIF2S1	Human, Mouse, Rat	82936-1	●	☆	●	☆ ☆	☆ ☆
	Phospho-EIF2S1 (Ser51)	Human, Mouse, Rat	68023	●	☆	●	☆ ☆	☆ ☆
	EIF4E	Human, Mouse, Rat	66655			●	●	●
R	Phospho-EIF4E (Ser209)	Human	84981-1	●	☆	☆	☆ ☆	☆ ☆
R	ERK1/2	Human, Mouse, Rat	83533-1	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-ERK1/2 (Thr202/Tyr204)	Human, Mouse	80031-1	●	☆	●	☆ ●	● ☆
	Foxp3	Mouse	65089	●	☆	●	● ☆	● ☆
	GATA1	Human, Mouse, Rat, Pig	60011			●	●	
	GATA2	Human, Mouse	67722			●		
	GSK3B	Human, Pig	67329			●	●	●
	Phospho-GSK3B (Ser9)	Human	67558			●	●	●
R	Phospho-Hamartin/TSC1 (Ser511)	Human, Mouse	80340-1	●	☆	●	● ●	● ☆
	HIF-1 alpha	Human	20960					●
R	HIF-1 beta	Human, Rat	84650-4	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-Histone H2A.X (Ser139)	Human, Mouse, Rat	83307-2	●	☆	☆	☆ ☆	☆ ☆
R	Acetyl-Histone H2B (Lys5)	Human, Mouse	83171-4			●		
R	Histone H3	Human, Mouse, Rat	81984-2	●	☆	☆	☆ ☆	☆ ☆
R	Mono-Methyl-Histone H3 (Lys36)	Human, Mouse, Rat	82825-2	●	☆	☆	☆ ☆	☆ ☆
R	Di-Methyl-Histone H3 (Arg2)	Human, Mouse, Rat	84702-1	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-Histone H3 (Thr3)	Human, Mouse, Rat	84739-1	●	☆	●	☆ ☆	☆ ☆
	Phospho-Histone H3 (Ser10)	Human, Rat, Mouse, Pig	66863	●	☆	●	☆ ☆	☆ ☆
	HSP27	Human, Mouse, Rat, Zebrafish	66767			●		●
R	Phospho-HSP27 (Ser15)	Human	83332-3	●	☆	●	☆ ☆	● ☆
R	HSP47	Human, Mouse	83689-3	●	☆	☆	☆ ☆	☆ ☆
	HSP47	Human, Mouse, Rat	67863			●	●	
	HSP60	Human, Mouse, Rat	66041			●		
	HSP70	Human, Mouse, Rat, Yeast	66183			●	●	
R	HSP90	Human, Mouse, Rat	83950-5	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-IkB Alpha (Ser32/36)	Human, Mouse, Rat	82349-1	●	☆	☆	☆ ☆	☆ ☆

R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
R	Phospho-IkB Beta (Thr19/Ser23)	Human	84403-1	●	☆	☆	☆ ☆	☆ ☆
	IRAK1	Human, Mouse, Rat	10478			●	●	●
	IRF1	Human, Mouse, Rat	11335			●		
	IRF3	Human	11312			●	●	
R	Phospho-IRF3 (Ser396)	Human	80519-2	●	☆	☆	☆ ☆	☆ ☆
	ITCH	Human, Mouse, Rat	67757			●		
R	JNK	Human, Mouse, Rat	81629-1	●	☆	●	☆ ☆	☆ ☆
R	Phospho-JNK (Tyr185)	Human, Mouse	80024-1	●	☆	☆	☆ ☆	☆ ☆
	JUN	Human, Mouse, Rat	66313			●		
R	Phospho-JUN (Ser73)	Human, Mouse	80086-1	●	☆	●	☆ ●	● ●
R	Phospho-JUN (Thr91/93)	Human, Mouse	81667-2	●	☆	●	☆ ●	● ☆
R	JUNB	Human	84922-6	●	☆	☆	☆ ☆	☆ ☆
R	JUND	Human	83134-6	●		●	☆ ☆	☆ ☆
	KLF5	Human, Mouse	66850	●	☆	☆	☆ ☆	☆ ☆
	MAP2K4	Human	67333			●	●	
R	MEK1/2	Human, Mouse, Rat	84967-1	●	☆	☆	☆ ☆	☆ ☆
	Phospho-MEK1 (Thr292)	Human, Mouse, Rat	67873	●	☆	●	☆ ☆	☆ ☆
R	Phospho-MEK1 (Ser298)	Human	84691-1	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-MEK1 (Thr386)	Human	81304-1	●	☆	☆	☆ ☆	☆ ☆
	MEK6	Human, Mouse	12745			●		●
	MITF	Human, Mouse, Rat	13092					●
R	Phospho-MST1 (Thr183)/MST2 (Thr180)	Human, Mouse	80093-1	●	☆	●	☆ ☆	● ☆
R	mTOR	Human, Mouse, Rat	81670-1	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-mTOR (Ser2448)	Human, Rat	80596-1			●	● ●	●
	Phospho-mTOR (Ser2448)	Human, Mouse	67778	●	☆	●	☆ ●	● ☆
	Phospho-Myosin Light Chain 2 (Thr18/Ser19)	Human	29504	●	☆	●	☆ ☆	● ☆
	NEUROD1	Human	66691			●	●	
	NF-κB p65	Human	80979	●	☆	●	☆ ☆	☆ ☆
R	Phospho-NF-κB p65 (Ser468)	Human, Mouse	82335-1	●	☆	☆	☆ ☆	● ☆
R	Phospho-NF-κB p65 (Ser536)	Human, Mouse	80379-2	●	☆	☆	☆ ☆	☆ ☆
R	NRF1	Human, Mouse	83092-1	●	☆	☆	☆ ☆	☆ ☆
	NRF2, NFE2L2	Human, Mouse, Rat	80593	●	☆	●	☆ ☆	☆ ☆
	OCT4	Human, Mouse, Rat	11263			●	●	
R	OPTN	Human	83634-5	●	☆	☆	☆ ☆	☆ ☆
R	P53	Human, Zebrafish	80077-1	●	☆	●	● ●	☆ ☆
R	Phospho-P53 (Ser15)	Human	80195-1	●	☆	●	● ●	● ☆
	Phospho-P53 (Ser46)	Human	67900	●	☆	●	☆ ☆	☆ ☆

R *This clone is available as a recombinant antibody*

☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
R	Phospho-P53 (Ser392)	Human	80077-2	●	☆	☆	☆ ☆	☆ ☆
	PDH E1 Alpha	Human, Mouse, Rat	66119				●	
R	Phospho-PDH E1 Alpha (Ser232)	Human	81491-1	●	☆	●	☆ ☆	☆ ☆
	PERK/EIF2AK3	Human	24390			●		
R	Phospho-PERK/EIF2AK3 (Thr982)	Human, Mouse	82534-1	●	☆	●	☆ ☆	● ☆
R	Phospho-POLR2A (Ser2)	Human	84974-1	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-POLR2A (Ser5)	Human	84834-1	●	☆	☆	☆ ☆	☆ ☆
	RB1	Human	67521			●		
R	Phospho-RB1 (Ser780)	Human	84692-1			●	●	●
R	RELB	Human, Rat	83305-6	●	☆	☆	☆ ☆	☆ ☆
	Phospho-RIPK1 (Ser161)	Human	66854	●	☆	●	● ●	● ☆
	Phospho-RPS6 (Ser235)	Human, Mouse, Rat	67898			●		
R	Phospho-RPS6KA1 (Ser380)	Human, Mouse	80108-1	●	☆	●	☆ ☆	● ☆
R	Phospho-RPS6KA1 (Thr359/Ser363)	Human, Mouse	81475-1	●	☆	☆	☆ ☆	☆ ☆
	Phospho-S6 Ribosomal protein (Ser235)	Human, Mouse, Rat	67898	●	☆	●	☆ ☆	☆ ☆
R	Phospho-S6 Ribosomal protein (Ser236)	Human, Mouse	80206-1	●	☆	●	● ●	● ☆
R	Phospho-S6 Ribosomal protein (Ser240/244)	Human	81184-1	●	☆	☆	☆ ☆	☆ ☆
R	SMAD1	Human, Mouse, Rat	85388-1	●	☆	☆	☆ ☆	☆ ☆
R	SMAD2	Human, Rat	83841-4	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-SMAD2 (Ser465/467)/ SMAD3 (Ser423/425)	Human	80427-2	●	☆	●	☆ ●	● ☆
R	SMAD4	Human, Mouse	83169-4	●	☆	●	☆ ☆	☆ ☆
	SOX2	Human, Pig, Mouse, Rat	66411	●	☆	☆	☆ ●	● ☆
R	SOX4	Human	83660-1	●	☆	☆	☆ ☆	☆ ☆
	SOX9	Human, Mouse	67439	●	☆	●	☆ ☆	☆ ☆
	SOX10	Human, Rat	66786	●	☆	●	● ●	☆ ☆
	STAT1	Human, Rat	10144			●		●
R	Phospho-STAT1 (Tyr701)	Human	82674-10	●	☆	●	☆ ●	● ☆
	STAT3	Human, Mouse, Rat	60199			●	●	●
	Phospho-STAT3 (Ser727)	Human, Mouse, Rat	60479	●	☆	☆	☆ ☆	☆ ☆
	STAT4	Human, Mouse, Rat	67568			●	●	
	Phospho-STAT5A (Tyr694)/ STAT5B (Tyr699)	Human	68000	●	☆	☆	☆ ☆	☆ ☆
R	Phospho-STAT5A (Tyr694)/ STAT5B (Tyr699)	Human	80115-1			●	● ●	●
R	Phospho-STAT5A (Ser726)/STAT5B (Ser731)	Human	80138-2	●	☆	●	☆ ●	● ☆
	STAT5B	Human	66427			●	●	
R	STAT6	Human, Mouse, Rat	82630-1			●		
	STK11/LKB1	Human, Mouse, Rat	66719			●		

Common Cell Death Targets

Cell death is a fundamental process that plays critical roles in the physiology and pathology of multicellular organisms. Cell death can be regulated through precise signaling pathways or accidental, a result of unexpected cellular injury. Flow cytometry enables cell death mechanisms to be studied within cellular sub-populations through the simultaneous analysis of cell type specific markers and cell death markers.

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
	AIFM2	Human	82974	●	☆	☆	☆ ☆	☆ ☆
R	Annexin V	Human	83929	●	☆	☆	☆ ☆	☆ ☆
	ATG7	Human, Mouse, Rat, Pig	67341				●	
	ATG13	Human, Mouse, Rat, Pig	66708			●		
	BAX	Human, Mouse, Rat	60267			●	● ●	●
R	BCL2	Human	80313			●	● ●	●
	Bcl-XL	Human, Mouse, Rat	66020			●	● ●	●
R	Caspase 1	Human	84735-1	●	☆	☆	☆ ☆	☆ ☆
R	Caspase 3/P17/P19	Human, Mouse	82202-1	●	☆	●	☆ ☆	☆ ☆
	Cleaved Caspase 3/P17/P19	Human, Mouse, Rat	68773	●	☆	☆	☆ ☆	☆ ☆
	Caspase 7	Human, Mouse, Rat	67956			●		
	Caspase 8/P43/P18	Human, Mouse	13423			●		
	Caspase 9/p35/p10	Human, Mouse, Rat	10380			●	●	●
R	Phospho-Caspase 9 (Ser196)	Human, Mouse	80346-1			●	● ●	●
R	Caspase 10	Human	85196-3	●	☆	☆	☆ ☆	☆ ☆
	Cathepsin D	Human	66534	●	☆	☆	☆ ☆	☆ ☆
	CBS	Human, Rat	67861			●		
	CCAR2	Human, Pig	66497				●	
	c-MYC	Human, Mouse, Rat	67447			●	● ●	●
R	Cytochrome c	human, mouse	83276	●	☆	☆	☆ ☆	☆ ●
R	DRP1 (C-terminal)	human, mouse, rat	81561	●	☆	☆	☆ ☆	☆ ☆
	DRP1 (N-terminal)	Human, Mouse, Rat	26187					●
R	FAS/CD95	Human	98034	●	●	●	☆ ●	● ●
R	FAS/CD95	Mouse	98135	●	☆	●	☆ ●	● ☆
	Galectin-3	Human, Mouse, Rat	60207			●	● ●	●
R	Granzyme B	Human	98070	●	☆	●	☆ ●	● ☆
	GRP78/BIP	Human, Mouse, Rat	66574				●	●
R	GSDMD	Human, Mouse	80918	●	☆	●	☆ ☆	☆ ☆
	HSP27	Human, Mouse, Rat, Zebrafish	66767			●		●
R	Phospho-HSP27 (Ser15)	Human	83332-3	●	☆	●	☆ ☆	● ☆
	HSP60	Human, Mouse, Rat	66041			●		
	HSPB3	Human, Mouse, Rat, Rabbit	67890			●	●	

R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
	IL-18	Human, Rat	60070	●	☆	●	☆ ●	☆ ☆
	MCL1	Human, Mouse, Rat	66026			●		●
	MFN2	Human, Mouse, Rat	67487			●	●	●
	NLRP3	Human	19771			●	●	
R	NRF2	Human, Mouse	80593	●	☆	●	☆ ☆	☆ ☆
	Phospho-RIPK1 (Ser161)	Human	66854	●	☆	●	● ●	● ☆
	SURVIVIN	human, mouse, rat	10508			●	●	●
	TRAF2	Human	67315			●	●	

Select Neuroscience Targets

Flow cytometry has finally armed neuroscientists with the ability to study specific neural cells from a heterogenous population and characterize their molecular or morphological features. Additionally, the technique has advanced our understanding of neuroinflammatory processes and the intricate cellular dynamics that can give rise to neurological disorders. ***Also validated in IF**

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
	14-3-3 Epsilon	human, mouse, rat	11648			●	●	●
	APOE*	human, mouse	66830			●	● ●	
	Ataxin 2*	human, mouse, rat	21776				●	
R	ATF4*	human	81798-2	●	☆	☆	☆ ☆	☆ ☆
	ATF4*	human, mouse, rat	60035			●	●	
	BAX*	Human, Mouse, Rat	60267			●	● ●	●
R	BCL2*	Human	80313-1			●	● ●	●
	Beta Tubulin*	human, mouse, rat, nematode, pig, zebrafish	66240			●	●	
R	Beta Tubulin*	human, mouse, rat, zebrafish	80713-1	●	☆	☆	☆ ☆	☆ ☆
	c-MYC*	Human, Mouse, Rat	67447			●	● ●	●
R	CORO1A*	human, mouse, rat	84602-5	●	☆	☆	☆ ☆	☆ ☆
	CPLX2	Human, Mouse, Rat	66849	●	☆	☆	☆ ●	☆ ☆
	CREST*	human, mouse, rat	12439			●		
	ELAVL4*	Human, rat, mouse, rabbit, pig	67835			●		
R	ESR2	human, mouse	83447-3	●	☆	☆	☆ ☆	☆ ☆
	Fetuin-A*	human	66094			●	●	
	FMR1*	Human, rat, mouse	66548	●	☆	●	☆ ☆	☆ ☆
	FUS/TLS*	human, mouse, rat	11570			●	●	
	FYN*	Human, Mouse, Rat	66606			●		●
	Galectin-3*	Human, Mouse, Rat	60207-1			●	● ●	●
	GATA1*	human, mouse, rat, pig	60011			●	●	
	GATA2*	Human, mouse	67722			●		
R	GATA3	Human, mouse	83808-1	●	☆	☆	☆ ☆	☆ ☆
	GFAP*	human, mouse, rat	16825					●

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
	GFAP*	human, mouse, rat	16825					●
	GLUT1*	human, mouse	66290	●	☆	●	☆ ●	☆ ☆
	Glutamine Synthetase*	human, mouse, rat	11037				●	●
	Glutamine Synthetase*	human, mouse, rat	66323-2				●	
	HLA-DR*	Human	65218	●	●	●	● ●	● ●
	HOMER1*	human, mouse, rat	12433			●		
	HSP70*	Human, Mouse, Rat, Yeast	66183			●	●	
R	HSP90*	Human, Mouse, Rat	83950-5	●	☆	☆	☆ ☆	☆ ☆
R	IBA1*	human, mouse, rat	81728-1	●	☆	●	● ●	● ☆
	IDE*	Human, Mouse, Rat	67106			●		
	iNOS*	human, mouse, rat	18985			●	●	●
	Islet 1*	human	15661			●		
	ITPR1-specific*	human, mouse, rat	19962			●		●
R	JNK*	Human, Mouse, Rat	81629-1	●	☆	●	☆ ☆	☆ ☆
	LRP1	Human	65233	●	●	●	● ●	● ●
	MAP1B*	human, mouse	21633			●		●
	MAP2*	Human, mouse, rat	67015			●	●	
	MFN2*	Human, Mouse, Rat	67487			●	●	●
	NANOG*	human, mouse, rat	14295			●	●	●
	NCAM-1 (CD56)	Human	65264	●	●	●	● ●	● ●
	NeuN*	Human, mouse, rat	66836			●	●	●
	NEUROD1	Human, mouse	66691			●	●	
	NF-L*	human, mouse, rat	12998			●		
	NF-L*	human, mouse, rat, pig	60189				●	
	NF-M	human, mouse, rat	66396			●	●	
	Noggin	Human	69010					●
	NR4A2	Human, mouse	66878			●		
	NSE*	human, mouse, rat, pig	66150			●		
	OCT4*	human, mouse, rat	11263			●	●	
	OPTN*	human, mouse, rat	10837			●		●
R	OPTN	human	83634-5	●	☆	☆	☆ ☆	☆ ☆
	Osteopontin*	human, rat, mouse	22952			●		●
R	Osteopontin*	human, mouse	83341-1	●	☆	☆	☆ ☆	☆ ☆
	OTX2*	human, mouse, rat	13497			●		
R	PAX6*	human, mouse, rat	84345-5	●	☆	☆	☆ ☆	☆ ☆
	PICALM*	Human, Mouse, Rat	67564			●	●	
	PKC Alpha*	human, mouse, rat	21991			●		●
R	PKC Alpha	human, mouse, rat	83840-5	●	☆	☆	☆ ☆	☆ ☆
	PPP2CA*	human, mouse, rat	67809			●		

R *This clone is available as a recombinant antibody* ☆ *Fluorophore available through FlexAble antibody labeling kit (p.34)*

R	Target	Reactivity	Catalog No.	Pure	Violet	Blue	Yellow	Red
R	PPP2CA*	human	84155-6	●	☆	☆	☆ ☆	☆ ☆
	PPP3CA*	human, mouse	13422					●
	PTBP1*	Human, mouse, rat	67462				●	
	PTK2B	Human, Mouse, Rat, Pig	67141			●		
	SMN*	Human, Mouse, Rat	60154			●	●	●
R	SMARCA4*	human, mouse, rat	83310-2	●	☆	☆	☆ ☆	☆ ☆
R	smooth muscle actin specific*	Human, mouse, rat, chicken, pig, zebrafish	80008-1	●	☆	●	☆ ●	☆ ☆
	SOD2*	Human, mouse, rat, pig	66474				● ●	
R	SOD2*	human, mouse, rat	83519-4	●	☆	☆	☆ ☆	☆ ☆
	SOX2	human, pig, mouse, rat	66411				●	●
	SOX2*	human, pig, mouse, rat	66411				●	●
	SOX9	Human, mouse	67439			●		
	SOX10*	Human, mouse, rat	66786			●	● ●	
R	Stathmin 1*	human, rat	82559			●		
	Synaptophysin*	Human, Pig, Mouse, Rat	67864			●	●	
R	Synaptophysin*	human, mouse, rat	82900-1	●	☆	☆	☆ ☆	☆ ☆
	Synaptotagmin-1	Human, Mouse, Rat, Pig, Rabbit, Chicken	68043			●		
	TBP*	human, mouse, rat, pig	66166			●		
	TDP-43*	human, mouse, rat	12892			●	●	
R	TDP-43*	human, mouse, rat	80001-1	●	☆	●	☆ ☆	☆ ☆
	TIMELESS	Human, Mouse, Rat	67022			●		
	TMEM119*	Human, Mouse	27585					●
	TOM20*	human, mouse, rat	11802			●	● ●	●
	TOM20*	Human	66777			●	● ●	●
R	TOM20*	Human, mouse, rat, pig, chicken, zabrafish	80501-1			●		
	TUBB3-specific*	human, mouse, rat, rabbit, chicken, pig	66375				●	
	VAPB*	human, mouse, rat	14477				●	●

SUPPORTING PRODUCTS

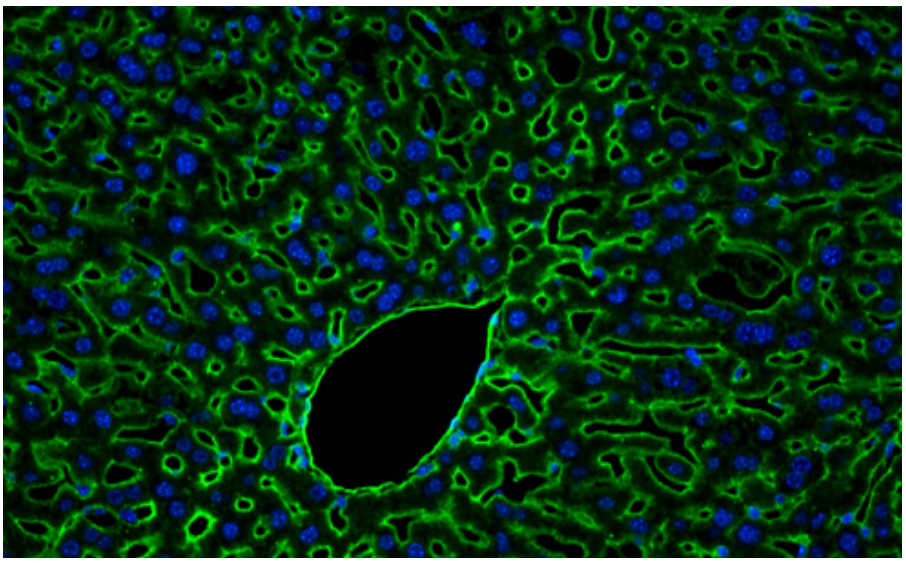
Secondary Antibodies

Proteintech offers a growing portfolio of secondary antibodies:

- High quality ensuring lot-to-lot consistency
- High specificity and sensitivity
- Available for a range of applications

Species Reactivities	Anti-mouse, Anti-rabbit, Anti-goat, Anti-rat, Anti-human, Anti-chicken, Anti-guinea pig, Anti-horse, Anti-sheep, Anti-swine
Conjugates	Alexa Fluor® 488, Alexa Fluor® 568, Alexa Fluor® 647, AMCA, AP, Biotin, CoraLite® 488, CoraLite® 594, CoraLite® 647, Cy3, FITC, HRP, R-PE, TRITC
Applications	Western Blot, Immunofluorescence, Immunohistochemistry, ELISA, Flow Cytometry

Alexa Fluor® is a registered trademark of Life Technologies Corporation.



◀ Multi-rAb Goat Recombinant Secondary Antibodies

- Amplifies signal with minimal background
- Unlimited supply and high lot-to-lot consistency
- Anti-Rabbit and Anti-Mouse
- CoraLite Plus 488, CoraLite Plus 555, CoraLite Plus 594, CoraLite Plus 647, and CoraLite Plus 750

FlexAble Antibody Labeling Kits

FlexAble is a novel antibody labeling kit that uses an affinity linker to conjugate fluorochromes, enzymes, and molecules in any buffer condition - now with increased brightness to maximize your multiplex results.

	CoraLite® Plus 405	CoraLite® Plus 488	FITC Plus	CoraLite® Plus 555	CoraLite® Plus 594	CoraLite® Plus 647	CoraLite® Plus 750	Biotin
Rabbit IgG	KFA506	KFA501	KFA508	KFA502	KFA509	KFA503	KFA504	KFA007
Mouse IgG1	KFA526	KFA521	KFA528	KFA522	KFA529	KFA523	KFA524	KFA027
Mouse IgG2a	KFA546	KFA541	KFA548	KFA542	KFA549	KFA543	KFA544	KFA047
Mouse IgG2b	KFA566	KFA561	KFA568	KFA562	KFA569	KFA563	KFA564	KFA067
Human IgG	KFA608	KFA604	KFA609	KFA605	KFA612	KFA606	KFA607	KFA111
Rat Kappa Light Chain		KFA621	KFA626	KFA622		KFA623		KFA128

SUPPORTING PRODUCTS

Cell Death and Viability Dyes

Dead cells in your sample can stain non-specifically, causing inaccurate results. Viability dyes stain dead or dying cells, allowing you to gate them out during analysis.

Catalog No.	Product Name
PD00003	Phantom Dye UV 450 Viability Dye
PD00004	Phantom Dye Violet 450 Viability Dye
PD00005	Phantom Dye Violet 510 Viability Dye
PD00006	Phantom Dye Violet 540 Viability Dye
PD00007	Phantom Dye Blue 516 Viability Dye
PD00001	Phantom Dye Red 710 Viability Dye
PD00002	Phantom Dye Red 780 Viability Dye
PF00005	CoraLite®488-Annexin V and PI Apoptosis Kit
PF00006	CoraLite®488 TUNEL Assay Apoptosis Detection Kit
PF00009	CoraLite®594 TUNEL Assay Apoptosis Detection Kit
PF00007	Viability/Cytotoxicity Assay Kit for Animal Live & Dead Cells (Calcein AM, PI Method)
PF00008	Viability/Cytotoxicity Assay Kit for Animal Live & Dead Cells (Calcein AM, EthD-1 Method)

Fix and Perm Reagents

Fix and perm reagents allow for investigation of intracellular and nuclear targets with flow cytometry. We're proud to offer you the same buffers that we use in-house for our flow cytometry product validation, from our bench to your bench™.

Catalog No.	Product Name
PF00012	Flow Cytometry Staining Buffer (1X)
PF00019	Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit
PF00011	Foxp3 / Transcription Factor Staining Buffer Kit
PF00026	Flow Cytometry Phosphorylated Protein Fix/Perm Kit
PF00013	RBC Lysis Buffer (10×)

Magnetic Cell Separation Kits

Proteintech's magnetic cell separation systems use highly specific, high-affinity antibodies (or streptavidin) covalently conjugated to supramagnetic polystyrene particles for quick, easy, column-free cell depletions and isolations.

Catalog No.	Product Name
KMS001	Human CD3 Magnetic Beads Kit
KMS002	Human CD4 Magnetic Beads Kit
KMS003	Human CD8 Magnetic Beads Kit
KMS004	Human CD19 Magnetic Beads Kit
KMS005	Human CD14 Magnetic Beads Kit
KMS006	Human CD16 Magnetic Beads Kit
KMS007	Human CD11b Magnetic Beads Kit
KMS302	Human CD4 Isolation Kit
KMS303	Human CD8 Isolation Kit
KMS305	Human CD4 Memory T Cell Isolation Kit
KMS307	Human CD8 Memory T Cell Isolation Kit
KMS308	Human NK Cell Isolation Kit
KMS309	Human CD3 T Cell Isolation Kit
KMS301	Mouse Lineage Depletion Kit
KMS310	Human CD3/CD28 T cell Activation Beads Kit
KMS311	Mouse CD3/CD28 T Cell Activation Beads Kit
MS001	Streptavidin Magnetic Beads

Other Supporting Reagents

Catalog No.	Product Name
PF00020	Monocyte Blocking Reagent
PF00028	CoraLite Plus 405 Streptavidin
PF00023	CoraLite Plus 488 Streptavidin
PF00024	CoraLite 594 Streptavidin
PF00025	CoraLite Plus 647 Streptavidin
PF00027	FITC Plus Streptavidin
PF00021	PE Streptavidin
PF00022	APC Streptavidin

proteintech®

CONTACT US

Proteintech Group, Inc.
(HQ in North America)

5500 Pearl Street, Ste 400
Rosemont, IL 60018, USA
P +1 (888) 478-4522 (toll free in USA)
F +1 (773) 598-4321
+1 (847) 928-2189
E proteintech@ptglab.com

ptglab.com

Proteintech Europe

P +44 161 839 3007
F +44 161 241 3103
E europe@ptglab.com

Proteintech China

E proteintech-CN@ptglab.com

Proteintech Singapore

P +65 9785 0861
E singapore@ptglab.com