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Scientific



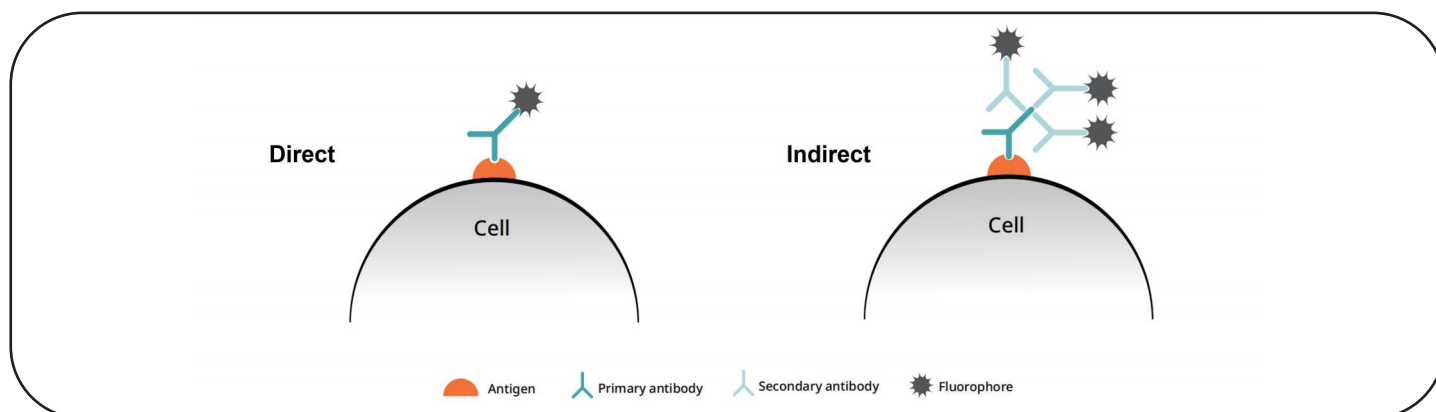
Flow Cytometry Antibodies

In flow cytometry, antibodies serve as key biological recognition molecules for the specific labeling of antigens on or within cells, which are referred to as **flow cytometry antibodies**.

Antibody labeling methods can be divided into direct labeling and indirect labeling.

Direct labeling: The antibody is directly conjugated with fluorophores (such as FITC, PE, APC, etc.) to form a fluorescently labeled primary antibody. This method is simple and quick, and can be directly used for the detection of target cells.

Indirect labeling: Indirect labeling involves a primary antibody binding to the target antigen, followed by detection with a fluorescently labeled secondary antibody, enhancing signal and sensitivity for low-abundance antigens.



Properties of common fluorophores used in flow cytometry:

Fluorophore	Excitation wavelength (nm)	Emission wavelength (nm)
PE	488	575
FITC	494	520
PerCP	490	677
Alexa Flour® 488	495	519
TRITC	547	572
Alexa Flour® 594	590	617
Alexa Flour® 647	652	668
APC	645	660
Cy5	650	667

Note:

- ① Choose fluorophores compatible with your instrument, ensuring emission is within the filter's detection range, with one fluorophore per channel.
- ② In multicolor flow cytometry, select fluorophores with minimal emission spectrum overlap, like FITC and APC.
- ③ Prevent repeated freeze-thawing and store in the dark to avoid fluorescence fading.

Aladdin provides a range of conjugated flow cytometry antibodies for flexible experiment design and also offers unlabeled antibodies for dye selection based on your experimental needs.

Conjugated Flow Cytometry Antibodies

Target	Cat.No	Product Name	Classification (Clone number)	Species Reactivity (Reacts with)	Application
CD Markers					
CD1a	Ab179690	CD1a Mouse mAb (APC)	mAb (HI149)	Human	Flow
	Ab179688	CD1a Mouse mAb (FITC)	mAb (HI149)	Human	Flow
	Ab179689	CD1a Mouse mAb (PE)	mAb (HI149)	Human	Flow
CD3	Ab179706	CD3 Mouse mAb (APC)	mAb (HIT3a)	Human	Flow
	Ab179704	CD3 Mouse mAb (FITC)	mAb (HIT3a)	Human	Flow
	Ab179705	CD3 Mouse mAb (PE)	mAb (HIT3a)	Human	Flow
CD9	Ab180145	CD9 Mouse mAb (APC)	mAb (HI9a)	Human	Flow
	Ab180143	CD9 Mouse mAb (FITC)	mAb (HI9a)	Human	Flow
	Ab180144	CD9 Mouse mAb (PE)	mAb (HI9a)	Human	Flow
CD20	Ab169184	Recombinant CD20 Antibody (APC)	Recombinant	Human	Flow
	Ab169183	Recombinant CD20 Antibody (FITC)	Recombinant	Human	Flow
	Ab169186	Recombinant CD20 Antibody (PE)	Recombinant	Human	Flow
	Ab169187	Recombinant CD20 Antibody (PerCP)	Recombinant	Human	Flow
CD45RA	Ab179698	CD45RA Mouse mAb (APC)	mAb (HI100)	Human	Flow
	Ab179696	CD45RA Mouse mAb (FITC)	mAb (HI100)	Human	Flow
	Ab179697	CD45RA Mouse mAb (PE)	mAb (HI100)	Human	Flow
CD52	Ab179702	CD52 Mouse mAb (APC)	mAb (HI186)	Human	Flow
	Ab179700	CD52 Mouse mAb (FITC)	mAb (HI186)	Human	Flow
CD56	Ab179744	CD56 Mouse mAb (APC)	mAb (NCAM16.2)	Human	Flow
	Ab179742	CD56 Mouse mAb (FITC)	mAb (NCAM16.2)	Human	Flow
	Ab179743	CD56 Mouse mAb (PE)	mAb (NCAM16.2)	Human	Flow
CD235a	Ab179694	CD235a Mouse mAb (APC)	mAb (HIR2)	Human	Flow
	Ab179692	CD235a Mouse mAb (FITC)	mAb (HIR2)	Human	Flow

Unconjugated Flow Cytometry Antibodies

Target	Cat.No	Product Name	Classification (Clone number)	Species Reactivity (Reacts with)	Application
Extracellular Markers—CD Antigens					
CD3	Ab094419	CD3 Mouse mAb	mAb (HIT3a)	Human	Flow
CD4	Ab094741	CD4 Mouse mAb	mAb (OKT4)	Human	Flow
CD8	Ab095357	CD8 Mouse mAb	mAb (HIT8a)	Human	Flow
CD8 α	Ab095352	CD8 alpha Rat mAb	mAb (2.43)	Mouse	Flow
CD9	Ab095487	CD9 Mouse mAb	mAb (HI9a)	Human	Flow
CD10	Ab093617	CD10 Mouse mAb	mAb (HI10a)	Human	Flow
CD11a	Ab093706	CD11a Mouse mAb	mAb (HI111)	Human	Flow
CD11c	Ab093741	CD11c Mouse mAb	mAb (3.9)	Human	Flow
CD13	Ab093787	CD13 Mouse mAb	mAb (WM15)	Human	Flow
CD16	Ab093973	CD16 Mouse mAb	mAb (3G8)	Human	Flow
CD16/CD32	Ab093991	CD16/CD32 Rat mAb	mAb (2.4G2)	Mouse	Flow
CD19	Ab006706	CD19 Mouse mAb	mAb (CB19)	Human	Flow
CD23	Ab094310	CD23 Mouse mAb	mAb (EBVCS-5)	Human	Flow
CD32	Ab094575	CD32 Mouse mAb	mAb (IV.3)	Human	Flow
CD33	Ab006571	CD33 Mouse mAb	mAb (HIM3-4)	Human	Flow
CD34	Ab094638	CD34 Mouse mAb	mAb (4H11)	Human	Flow
CD38	Ab007182	CD38 Mouse mAb	mAb (HIT2)	Human	Flow
CD42b	Ab094818	CD42b Mouse mAb	mAb (6H6H10)	Human	WB, Flow, ELISA
CD45	Ab094902	CD45 Mouse mAb	mAb (HI30)	Human	Flow
CD45RA	Ab006750	CD45RA Mouse mAb	mAb (HI100)	Human	Flow
CD62P	Ab095116	CD62P Mouse mAb	mAb (HI62P)	Human	Flow
CD138/Syndecan-1	Ab129996	CD138/Syndecan-1 Mouse mAb	mAb (MI15)	Human	Flow
CD235a	Ab105784	CD235a Mouse mAb	mAb (HIR2)	Human	Flow
PD-L1 (CD274)	Ab121011	PD-L1 Mouse mAb	mAb (29E.2A3)	Human	Flow
CD276	Ab094381	CD276 Antibody	pAb	Human	WB, IHC, Flow
PD-1 (CD279)	Ab120760	PD1 Mouse mAb	mAb (EH12.2H7)	Human	Flow

Unconjugated Flow Cytometry Antibodies

Target	Cat.No	Product Name	Classification (Clone number)	Species Reactivity (Reacts with)	Application
Other Extracellular Markers					
alpha 1 Fetoprotein	Ab088271	Recombinant alpha 1 Fetoprotein Antibody	Recombinant (RM1011)	Human,Mouse, Rat	IHC, IF/ICC, Flow, WB, IP, ELISA
ANXA5	Ab088957	ANXA5 Mouse mAb	mAb (C13)	Human, Porcine, Bovine	WB, IHC, IF, ICC
B7H4	Ab090417	Recombinant B7H4 Antibody	Recombinant (R08-7G4)	Human	WB
Caveolin-1	Ab093242	Caveolin-1 Antibody	pAb	Human, Mouse, Rat	WB, IHC
CDK2	Ab095749	CDK2 Mouse mAb	mAb(1A6)	Human, Mouse	WB, IHC, ICC/IF, Flow, ELISA
E Cadherin	Ab100725	E Cadherin Mouse mAb	mAb (7H12)	Human, Mouse, Rat, Monkey	WB, IHC, Flow, ELISA
EpCAM	Ab101839	Recombinant EpCAM Antibody	Recombinant (RR694)	Human	WB, IHC, Flow, IP
LAMP2	Ab112746	Recombinant LAMP2 Antibody	Recombinant (R03-0B5)	Human	WB, IHC
PAI1	Ab120074	PAI1 Mouse mAb	mAb(J11)	Human	WB, IHC, IF, ICC
PDGFR	Ab120914	Recombinant PDGFR alpha Antibody	Recombinant (R06-6D3)	Human, Mouse, Rat	WB
PDGFR	Ab120939	Recombinant PDGFR beta Antibody	Recombinant (R02-5B2)	Human, Mouse, Rat	WB
PIP4K2A	Ab179880	PIP4K2A Antibody	pAb	Human, Mouse, Rat	WB, IF/ICC, IHC, Flow
Rad50	Ab124364	Recombinant Rad50 Antibody	Recombinant (R07-8C0)	Human	WB, IHC
SIRP	Ab127634	Recombinant SIRP alpha Antibody	Recombinant (R08-1G4)	Human	WB, ICC, IF
SLAMF6	Ab127767	Recombinant SLAMF6 Antibody	Recombinant (R09-1E9)	Human	WB
TIMP2	Ab131343	TIMP2 Mouse mAb	mAb (1554CT494.262.47)	Human, Mouse, Rat	WB, IHC, ICC, IF, Flow
TPOR/MPL	Ab132084	Recombinant TPOR/MPL Antibody	Recombinant (R03-1C9)	Human, Mouse, Rat	WB
Intracellular Markers					
SDHB	Ab156576	SDHB Mouse mAb	mAb (CD02/2D6)	Human, Mouse, Rat	WB, Flow, ICC/IF, ELISA
SMAD5	Ab128237	SMAD5 Mouse mAb	Recombinant (4B10-B10-B6)	Human, Mouse, Rat	WB, IF, ICC, Flow
TOMM40	Ab131963	TOMM40 Antibody	pAb	Human	WB, ICC, IF, Flow
YAP1	Ab134985	YAP1 Mouse mAb	mAb(1A12)	Human	ELISA, WB, IHC, Flow

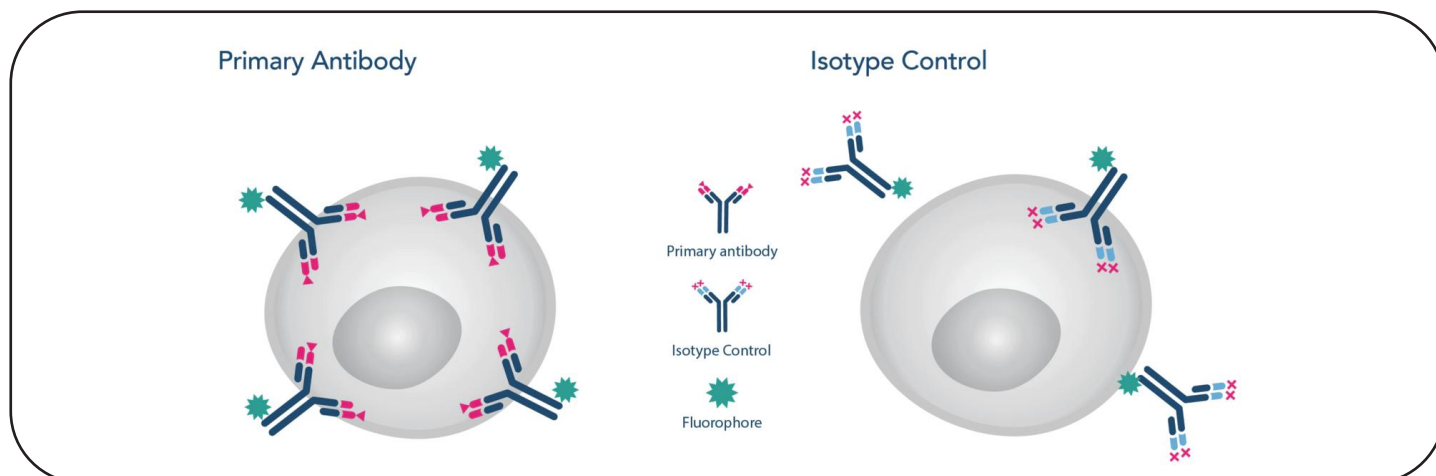
Unconjugated Flow Cytometry Antibodies

Target	Cat.No	Product Name	Classification (Clone number)	Species Reactivity (Reacts with)	Application
Intracellular Markers					
AKT1	Ab087937	AKT1 Mouse mAb	mAb (1F7E10)	Human,Mouse, Rat,Monkey	WB, ICC, IF, Flow, ELISA
AMPK	Ab088655	Recombinant AMPK alpha 1 Antibody	Recombinant (R02-3H6)	Human,Mouse, Rat	WB, IHC, ICC, IF
Bax	Ab090652	Recombinant Bax Antibody	Recombinant (RR647)	Human,Mouse, Rat	WB, IHC, Flow, IP
BECN1	Ab090922	BECN1 Mouse mAb	mAb (2A4)	Human	WB, IHC, Flow, ELISA
BRCA1	Ab091635	BRCA1 Antibody	pAb	Human,Mouse,Rat	WB
BrdU	Ab176205	BrdU Mouse mAb	mAb (AB06/4C1)	Species independent	Flow, ICC/IF, ELISA
CaMKII	Ab092652	CaMKII Mouse mAb	mAb (8G10C1)	Human,Rat	WB, IHC, Flow, ELISA
Caspase-7	Ab093049	Caspase-7 Mouse mAb	mAb (4D10B2)	Human	WB, IHC, Flow, ELISA
CEBPA	Ab095961	CEBPA Mouse mAb	mAb(4E10)	Human	WB, Flow, ELISA
Cytokeratin 8	Ab099041	Cytokeratin 8 Antibody	pAb	Human	WB, IHC, ICC, IF
ERK1	Ab102223	Recombinant ERK1 Antibody	Recombinant (RR671)	Human,Mouse, Rat	WB, IHC, Flow, IF/ICC, IP
FOXA1	Ab103911	Recombinant FOXA1 Antibody	Recombinant (R04-5A7)	Human,Rat	WB, ICC, IF
GABARAPL1	Ab104445	GABARAPL1 Antibody	pAb	Human,Mouse, Rat	WB, IHC, Flow
HDAC1	Ab107012	Recombinant HDAC1 Antibody	Recombinant (RR672)	Human,Mouse, Rat	WB, IHC, Flow, IF, ICC
HMGA2	Ab108293	HMGA2 Antibody	pAb	Human,Mouse, Rat	WB, Flow
HNF-4-alpha	Ab108377	Recombinant HNF-4-alpha Antibody	Recombinant (R02-4F0)	Human	WB
IL-10RA	Ab109829	IL-10RA Antibody	pAb	Human,Rat	WB, IF/ICC, Flow
IL10RB	Ab109838	IL10RB Mouse mAb	mAb (C1)	Human,Mouse, Rat	WB
NDUFA9	Ab117346	NDUFA9 Antibody	pAb	Human,Mouse	WB, IHC
PCNA	Ab181179	PCNA Mouse mAb	mAb (C12/17A3)	Human,Mouse, Rat	WB, Flow, ELISA
PDPK1	Ab121091	PDPK1 Mouse mAb	mAb (3H3D9)	Human,Mouse, Rat	WB, ICC, IF, ELISA, Flow
RASSF1	Ab124684	RASSF1 Antibody	pAb	Human	WB
RIP	Ab125400	Recombinant RIP Antibody	Recombinant (R07-8K8)	Human	WB
RPA32/RPA2	Ab125728	RPA32/RPA2 Mouse mAb	mAb (1591CT183.68.6)	Human,Mouse, Rat	WB, IHC

Isotype Control Antibodies

Isotype control antibodies possess (or at least should possess) the same immunoglobulin class and subtype as the primary antibody used in the experiment, but they lack specificity for the target protein.

Isotype controls serve as negative controls in immunostaining, helping to differentiate the specific antibody signals from non-specific background noise.



Isotype	Cat.No	Product Name
Mouse IgG	Ab180309	Mouse IgG Isotype Control Antibody (APC)
	Ab180306	Mouse IgG Isotype Control Antibody (Biotin)
	Ab180307	Mouse IgG Isotype Control Antibody (FITC)
	Ab180308	Mouse IgG Isotype Control Antibody (PE)
	Ab170221	Mouse IgG
Human IgG	Ab170213	Human IgG
Rat IgG	Ab180313	Rat IgG Isotype Control Antibody (APC)
	Ab180310	Rat IgG Isotype Control Antibody (Biotin)
	Ab180311	Rat IgG Isotype Control Antibody (FITC)
	Ab180312	Rat IgG Isotype Control Antibody (PE)
	Ab141774	Rat IgG
Guinea Pig IgG	Ab175978	Guinea Pig IgG
Goat IgG	Ab170217	Goat IgG
Bovine IgG	Ab175960	Bovine IgG
Sheep IgG	Ab170219	Sheep IgG
Pig IgG	Ab175962	Pig IgG
Cat IgG	Ab175966	Cat IgG
Rabbit IgG	Ab170215	Rabbit IgG
Chicken IgY (whole molecule)	Ab008417	Chicken IgY (whole molecule)
Alpaca IgG	Ab175970	Alpaca IgG

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Official website: www.aladdinsci.com

Phone: +1 (833) 552-7181

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