

APC anti-human CD9 Antibody

Catalog# / Size	312107 / 25 tests 312108 / 100 tests
Clone	HI9a
Regulatory Status	RUO
Workshop	V P018
Other Names	Tetraspanin, MRP-1, DRAP-24
Isotype	Mouse IgG1, κ
Description	CD9 is a 24 kD type III transmembrane protein also known as tetraspanin, MRP-1 and DRAP-24. It is a member of the tetraspan family (spanning the membrane four times) found on platelets, B cell progenitors, activated lymphocytes, granulocytes, endothelial cells and epithelial cells. CD9 induces adhesion, platelet aggregation, and B cell development. CD9 has been shown to associate with CD63, CD81, CD82, and CD36 and to bind to β_1 integrins.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cow, Cynomolgus, Dog, Horse, Rabbit, Rhesus, Sheep
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Red Laser (633 nm)
Application References (PubMed link indicates BioLegend citation)	1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
Product Citations	1. Ragni E, <i>et al.</i> 2021. Cells. 10: . PubMed 2. Cardinali B, <i>et al.</i> 2022. Int J Mol Sci. 23: . PubMed 3. McQuade A, <i>et al.</i> 2020. Nat Commun. 4.1875. PubMed 4. Ragni E, <i>et al.</i> 2022. Biomolecules. 12: . PubMed 5. Ragni E, <i>et al.</i> 2022. Pharmaceutics. 14: . PubMed 6. Papait A, <i>et al.</i> 2022. Front Immunol. 13:960909. PubMed
RRID	AB_2721450 (BioLegend Cat. No. 312107) AB_2721451 (BioLegend Cat. No. 312108)

Antigen Details

Structure	Tetraspan family, type III transmembrane protein, 24 kD
Distribution	Platelets, B cell progenitors, activated lymphocytes, granulocytes, endothelial and epithelial cells
Function	Adhesion, platelet activation, B cell development
Ligand/Receptor	Associates with CD63, CD81, CD82 and CD36, binds PSG17
Cell Type	B cells, Embryonic Stem Cells, Endothelial cells, Epithelial cells, Granulocytes, Lymphocytes, Platelets
Biology Area	Immunology, Stem Cells
Molecular Family	CD Molecules
Antigen References	1. Miao WM, <i>et al.</i> 2001 <i>Blood</i> 97:1689. 2. Ellerman DA, <i>et al.</i> 2003 <i>Mol. Biol. Cell.</i> (Epub ahead of print). 3. Schlossman S, <i>et al.</i> Eds. 1995. <i>Leucocyte Typing V.</i> Oxford University Press. New York.
Gene ID	928

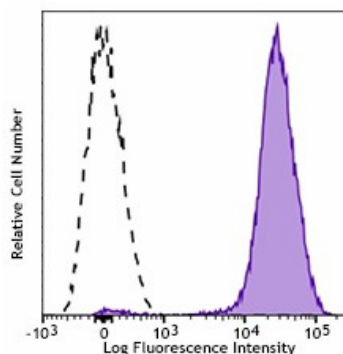
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD9, FITC anti-human CD9, PE anti-human CD9, APC anti-human CD9, PerCP/Cyanine5.5 anti-human CD9, APC/Fire™ 750 anti-human CD9, Biotin anti-human CD9, PE/Cyanine7 anti-human CD9, PE/Dazzle™ 594 anti-human CD9, TotalSeq™-A0579 anti-human CD9, TotalSeq™-C0579 anti-human CD9, TotalSeq™-B0579 anti-human CD9 Antibody, TotalSeq™-D0579 anti-human CD9

Product Data



Human platelets were stained with CD9 (clone HI9a) APC (filled histogram) or mouse IgG1, κ APC isotype control (open histogram).

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