

PE anti-human CD9 Antibody

Catalog# / Size	312105 / 25 tests 312106 / 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 PE 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	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References	1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> Han Y, <i>et al.</i> 2021. Exp Ther Med. 22:938. PubMed Liu Y, <i>et al.</i> 2022. Signal Transduct Target Ther. 7:347. PubMed Valentijn A, <i>et al.</i> 2013. Hum Reprod. 28:2695. PubMed Boyd DF, <i>et al.</i> 2020. Nature. 587:466. PubMed Fu B <i>et al.</i> 2017. Immunity. 47(6):1100-1113. PubMed Ricklefs FL, <i>et al.</i> 2020. Int J Mol Sci. 21:. PubMed Khan K, <i>et al.</i> 2022. J Tissue Eng Regen Med. 16:110. PubMed Salybekov AA, <i>et al.</i> 2021. Front Cardiovasc Med. 8:754254. PubMed Zabegina L, <i>et al.</i> 2021. Cells. 10:. PubMed Zhang F, <i>et al.</i> 2019. Immunity. 50:738. PubMed Rodda LB, <i>et al.</i> 2020. Cell. 184(1):169-183.e17. PubMed

12. Delgado-Peraza F, *et al.* 2021. *Cells*. 10: [PubMed](#)
13. Etzerodt A, *et al.* 2017. *Sci Rep*. 7:40286. [PubMed](#)
14. Huygens C, *et al.* 2015. *J Biol Chem*. 290: 20105-20116. [PubMed](#)
15. Smith-Díaz CC, *et al.* 2021. *Front Oncol*. 11:709543. [PubMed](#)
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RRID AB_2075893 (BioLegend Cat. No. 312105)
 AB_2075892 (BioLegend Cat. No. 312106)

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	<ol style="list-style-type: none"> 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

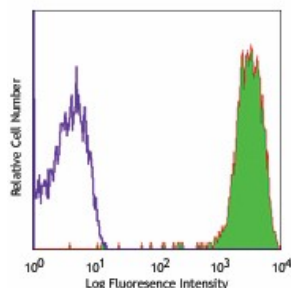
Related Protocols

[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 peripheral blood platelets stained with HI9a PE

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