

Purified anti-human CD9 Antibody

Catalog# / Size	312102 / 100 µg
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.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested ICC - Verified
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For immunofluorescent staining, it is recommended to use at ≤ 0.5 µg per 10 ⁶ cells in 100 µL volume or 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application References

(PubMed link indicates BioLegend citation)

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Product Citations

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RRID AB_314907 (BioLegend Cat. No. 312102)

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

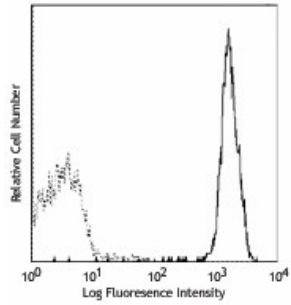
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

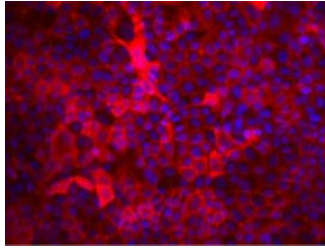
Other Formats

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 platelets stained with purified HI9a, then detected with anti-mouse IgGs FITC



BT474 breast cancer cell line was stained with anti-human CD9, detected with anti-mouse DyLight™ 649, and nuclear counterstained with DAPI. Images were acquired with a TE300 fluorescence microscope with a 20x objective. Data provided by: Er Liu and John Nolan, La Jolla Bioengineering Institute

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