

APC anti-mouse CD9 Antibody

Catalog# / Size	124811 / 25 µg 124812 / 100 µg
Clone	MZ3
Regulatory Status	RUO
Other Names	DRAP-27, MRP-1, p-24
Isotype	Rat IgG2a, κ
Description	CD9 is a surface glycoprotein of the tetraspannin family. It is expressed on a variety of cells, including nerve, muscle cells and many cells of hematopoietic origin. CD9 is found to participate in forming a large molecular cell complex with other membrane proteins, such as MHC class II, CD19, CD5 and other TM4SF molecules. It is reported that CD9 is a marker of marginal zone B cells, B1 cells and plasma cells. The diverse functions of CD9 may largely depend upon its associated molecules on different cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References	1. Won WJ, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:5605. (FC, WB)
(PubMed link indicates BioLegend citation)	
Product Citations	1. Hudson WH, <i>et al.</i> 2020. <i>Immunity.</i> 51(6):1043-1058.e4.. PubMed 2. Ratitong B, <i>et al.</i> 2021. <i>Cell Reports.</i> 35(7):109139. PubMed 3. Visan KS, <i>et al.</i> 2022. <i>J Extracell Vesicles.</i> 11:e12266. PubMed
RRID	AB_2783070 (BioLegend Cat. No. 124811) AB_2783071 (BioLegend Cat. No. 124812)

Antigen Details

Structure	24 kd surface glycoprotein belonging to the tetraspanin (TM4SF) family which is characterized by four transmembrane-spanning domains and two extracellular domains.
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Distribution	CD9 is expressed in nerve, muscle, keratinocytes, fibroblasts and a variety of hematopoietic cells including monocytes, macrophages, granulocytes, platelets and activated T and B cells.
Interaction	CD9 may participate in forming large molecular complexes with other associated molecules.
Cell Type	B cells, Embryonic Stem Cells, Fibroblasts, Granulocytes, Macrophages, Monocytes, Platelets, T cells
Biology Area	Immunology, Stem Cells
Molecular Family	CD Molecules
Antigen References	1. Boucheix C, <i>et al.</i> 1991. <i>J. Biol. Chem.</i> 266:117 2. Lanza F, <i>et al.</i> 1991. <i>J. Biol. Chem.</i> 266:10638
Gene ID	12527

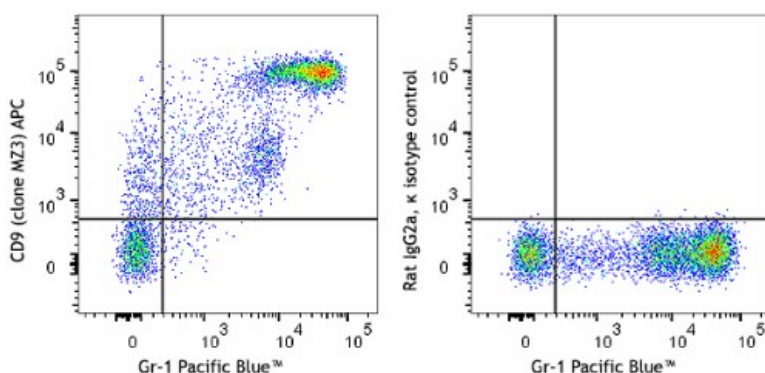
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD9, Biotin anti-mouse CD9, PE anti-mouse CD9, FITC anti-mouse CD9, Alexa Fluor® 647 anti-mouse CD9, APC anti-mouse CD9, PE/Cyanine7 anti-mouse CD9, APC/Fire™ 750 anti-mouse CD9, PerCP/Cyanine5.5 anti-mouse CD9, TotalSeq™-A0813 anti-mouse CD9, PE/Dazzle™ 594 anti-mouse CD9, TotalSeq™-C0813 anti-mouse CD9, TotalSeq™-B0813 anti-mouse CD9

Product Data



C57BL/6 bone marrow myeloid cells were stained with Gr-1 Pacific Blue™ and CD9 (clone MZ3) APC (left) or Rat IgG2a, κ APC isotype control (right).

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