

GMP APC/Fire™ 750 anti-human CD9 Antibody

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| Catalog# / Size | 260388 / 100 tests |
| Clone | HI9a |
| 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

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| 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 True-Stain Monocyte Blocker™, 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer. |
| Preparation | The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions. |
| Concentration | 200 μ g/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 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 774 nm. |
| Excitation Laser | Red Laser (633 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) | |

Disclaimer

GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

- Batch-to-batch consistency
- Material traceability
- Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

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|---------------------------|--|
| 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> 14:5098. 3. Schlossman S, <i>et al.</i> Eds. 1995. <i>Leucocyte Typing V.</i> Oxford University Press. New York. |
| Gene ID | 928 |

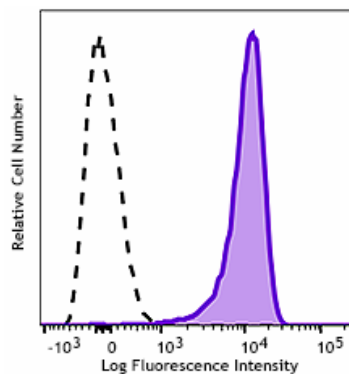
Related Protocols

- [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, Spark Violet™ 423 anti-human CD9

Product Data



Typical results from human peripheral blood platelets stained either with HI9a APC/Fire™ 750 used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

For Research Use Only. Suitable for *ex vivo* cell processing. Not for injection or diagnostic or therapeutic use.

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587