

Datasheet for ABIN94246
anti-CD9 antibody (Biotin)



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Overview

| | |
|--------------|---|
| Quantity: | 0.1 mg |
| Target: | CD9 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This CD9 antibody is conjugated to Biotin |
| Application: | Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

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|-----------------------------|---|
| Immunogen: | Pre-B cell line NALM-6. |
| Clone: | MEM-61 |
| Isotype: | IgG1 |
| Specificity: | The antibody MEM-61 recognizes an epitope on second extracellular domain (EC2) of CD9 antigen, a 24 kDa transmembrane protein expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes. |
| Cross-Reactivity (Details): | Human |
| Purification: | Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography. |

Target Details

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| Target: | CD9 |
| Alternative Name: | CD9 (CD9 Products) |
| Background: | CD9 Molecule,CD9 belongs to proteins of tetraspanin family that orchestrate cholesterol-associated tetraspanin-enriched signaling microdomains within the plasma membrane, forming complexes with each other as well as with integrins, membrane-anchored growth factors and other proteins. CD9 is involved in cell motility, osteoclastogenesis, neurite outgrowth, myotube formation, and sperm-egg fusion, plays roles in cell attachment and proliferation and is necessary for association of heterologous MHC II molecules on the dendritic cell plasma membrane which is important for effective T cell stimulation. CD9 is also considered as metastasis suppressor in solid tumors.,MIC3, MRP-1, BTCC-1, DRAP-27, TSPAN29, BA2 |
| Gene ID: | 928 |
| UniProt: | P21926 |
| Pathways: | Response to Water Deprivation, Cell-Cell Junction Organization |

Application Details

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| Application Notes: | Flow cytometry: Recommended dilution: 2-5 µg/mL. |
| Comment: | The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin. |
| Restrictions: | For Research Use only |

Handling

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|--------------------|--|
| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Do not freeze. Avoid prolonged exposure to light. |
| Storage: | 4 °C |

Handling

Storage Comment: Store at 2-8°C. Do not freeze.

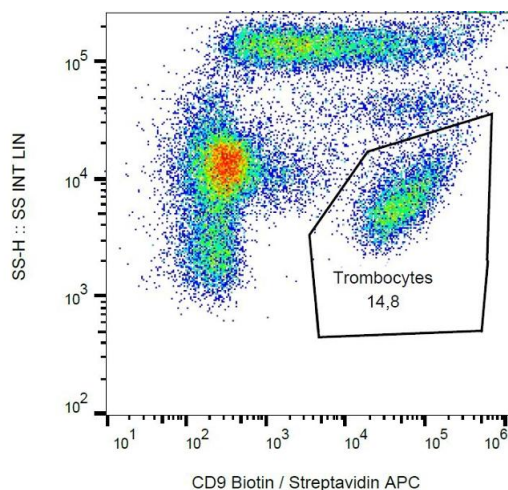
Publications

Product cited in: Lafleur, Xu, Hemler: "Tetraspanin proteins regulate membrane type-1 matrix metalloproteinase-dependent pericellular proteolysis." in: **Molecular biology of the cell**, Vol. 20, Issue 7, pp. 2030-40, (2009) ([PubMed](#)).

Singh, Sugimoto, Dhawan, Harris: "Juxtacrine activation of EGFR regulates claudin expression and increases transepithelial resistance." in: **American journal of physiology. Cell physiology**, Vol. 293, Issue 5, pp. C1660-8, (2007) ([PubMed](#)).

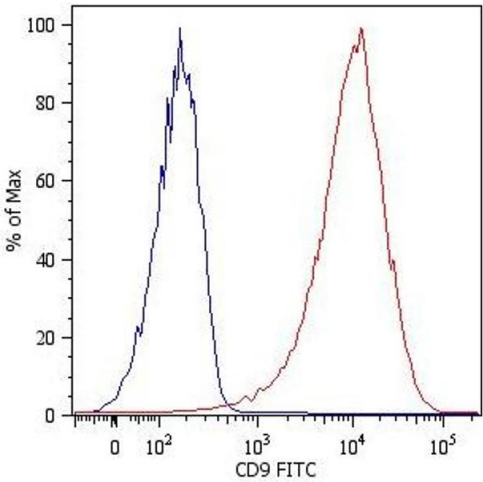
Stöckl, Majdic, Fischer, Maurer, Knapp: "Monomorphic molecules function as additional recognition structures on haptenated target cells for HLA-A1-restricted, hapten-specific CTL." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 5, pp. 2724-33, (2001) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD9 (MEM-61) biotin / streptavidin-APC.



Flow Cytometry

Image 2. Surface staining of NALM-6 human pre-B cell leukemia cell line with anti-human CD9 (MEM-61) FITC. Total viable cells were used for analysis.