

Datasheet for ABIN192074

anti-CD9 antibody (PE)

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Overview

Quantity:	100 tests
Target:	CD9
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD9 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

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 R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD9
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Target Details

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

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing 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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

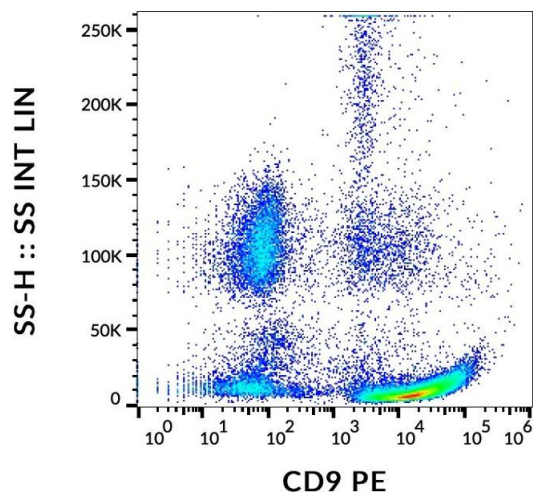
Product cited in:

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](#)).

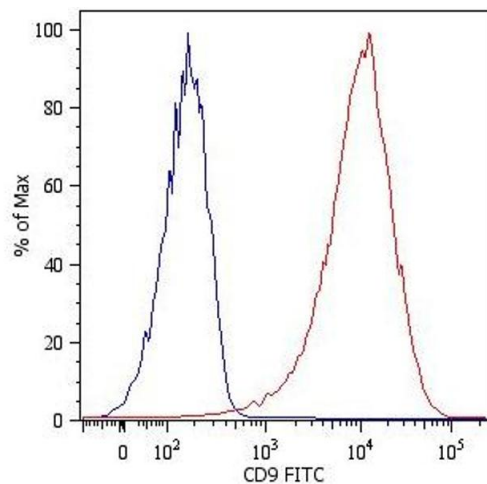
Stöckl, Majdic, Fischer, Maurer, Knapp: "Monomorphic molecules function as additional recognition structures on haptenated target cells for HLA-A1-restricted, hapten-specific CTL." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 5, pp. 2724-33, (2001) ([PubMed](#)).

Images



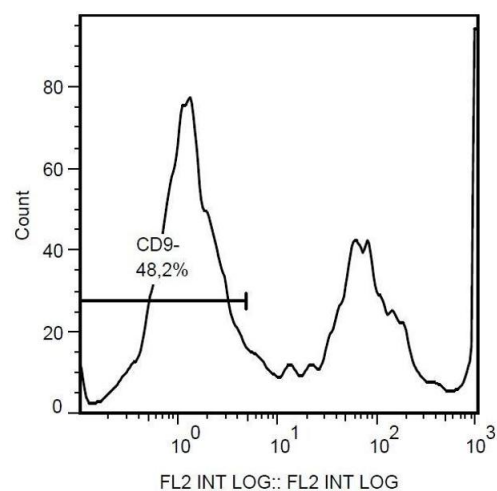
Flow Cytometry

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



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.



Flow Cytometry

Image 3. Surface staining of human peripheral blood with anti-CD9 (MEM-61) PE.