



[Go to Product page](#)

Datasheet for ABIN94247  
**anti-CD9 antibody (FITC)**

3 Images

3 Publications

### Overview

Quantity:	100 tests
Target:	CD9
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD9 antibody is conjugated to FITC
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 fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

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Target:	CD9
Alternative Name:	CD9 ( <a href="#">CD9 Products</a> )
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:	<a href="#">P21926</a>
Pathways:	<a href="#">Response to Water Deprivation</a> , <a href="#">Cell-Cell Junction Organization</a>

## Application Details

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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 <sup>6</sup> cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

## Handling

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Reconstitution:	No reconstitution is necessary.
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.
Handling Advice:	<b>Do not freeze.</b>

## Handling

Avoid prolonged exposure to light.

Storage: 4 °C

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

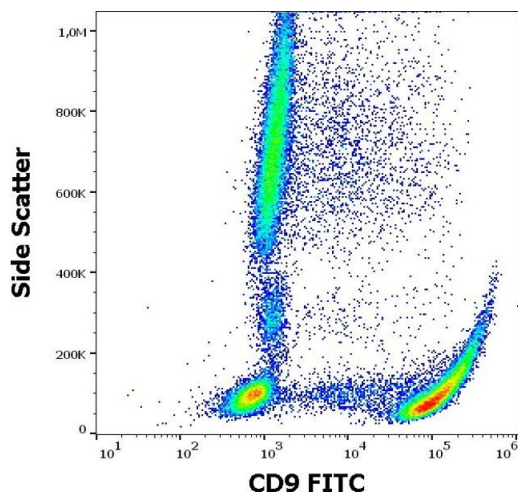
## Publications

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](#)).

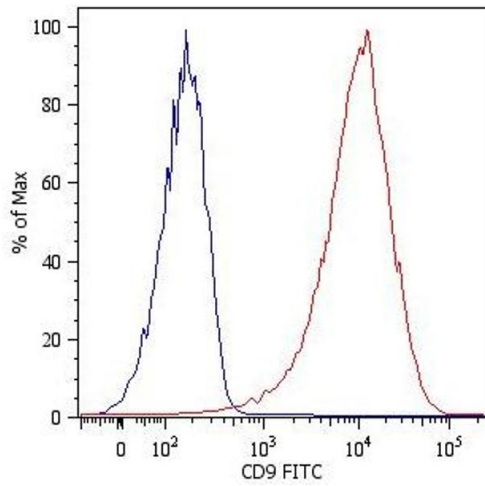
Stöckl, Majdic, Fischer, Maurer, Knapp: "Monomorphic molecules function as additional recognition structures on haptenated target cells for HLA-A1-restricted, hapten-specific CTL." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 5, pp. 2724-33, (2001) ([PubMed](#)).

## Images



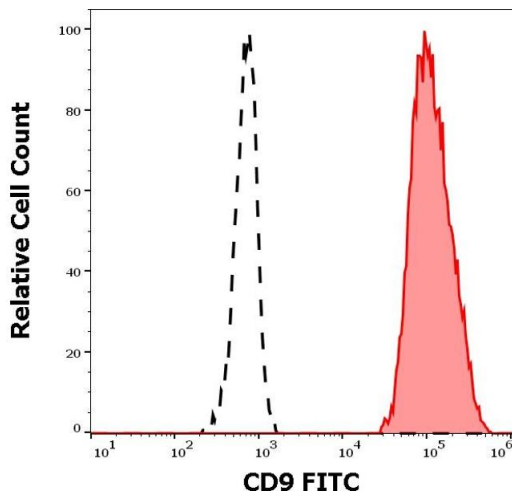
### Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD9 (MEM-61) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood).



### 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.** Separation of CD9 positive thrombocytes (red-filled) from CD9 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood using anti-human CD9 (MEM-61) FITC antibody (20  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).