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# Datasheet for ABIN125680 anti-CD9 antibody

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### Overview

0.1 mg
CD9
Human
Mouse
Monoclonal
Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Functional Studies (Func), Cytometry by Time of Flight (CyTOF)

## Product Details

Immunogen:	Pre-B cell line NALM-6.
Clone:	MEM-61
Isotype:	lgG1
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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Target Details	

# Target: CD9

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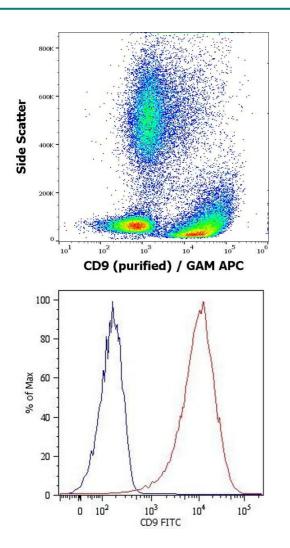
Target Details	
Alternative Name:	CD9 (CD9 Products)
Background:	CD9 Molecule,CD9 belongs to proteins of tetraspanin family that orchestrate cholesterol-
	associated tetraspanin-enriched signaling microdomains within the plasma membrane,
	forming complexes with each other as well as with integrins, membrane-anchored 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:	Functional application: The antibody MEM-61 induces FcyR-dependent platelet aggregation.
	Flow cytometry: Recommended dilution: 1-4 µg/mL.
	Western blotting: Recommended dilution: 2-4 $\mu$ g/mL, non-reducing conditions.
	Immunohistochemistry (paraffin sections): Recommended dilution: 10 $\mu$ g/mL, positive tissue:
	prostate.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Product cited in:

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



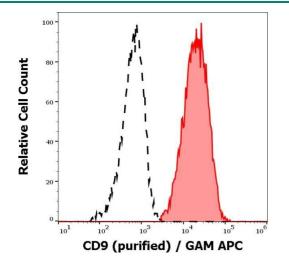
#### **Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD9 (MEM-61) purified antibody (concentration in sample 3  $\mu$  g/mL, GAM 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.

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### **Flow Cytometry**

**Image 3.** Separation of CD9 positive thrombocytes (red-filled) from human CD9 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD9 (MEM-61) purified antibody (concentration in sample 3  $\mu$  g/mL, GAM APC).

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