

Product datasheet for **SM3039APC**

CD9 Mouse Monoclonal Antibody [Clone ID: MEM-61]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-61
Applications:	FC
Recommended Dilution:	Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Pre-B cell line NALM-6
Specificity:	This antibody 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.
Formulation:	Phosphate buffered saline (PBS) solution containing 15mM sodium azide Label: APC State: Liquid purified Ig fraction Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Conjugation:	APC
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD9 molecule
Database Link:	Entrez Gene 928 Human P21926



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Background:

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.

Synonyms:

MIC3, TSPAN29, GIG2, p24, Tetraspanin-29, 5H9 antigen

Protein Families:

Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:

Hematopoietic cell lineage

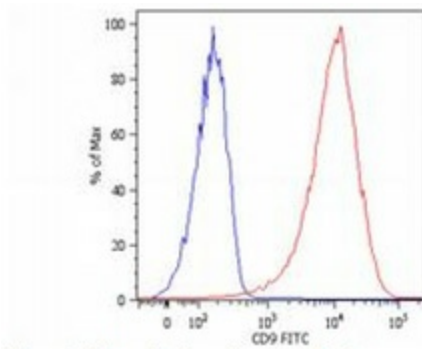
Product images:

Fig. 1. Flow Cytometry analysis

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.