

## Product datasheet for **SM3039F**

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

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-61
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry analysis</b> of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Pre-B cell line NALM-6
Specificity:	The antibody recognizes an epitope on second extracellular domain (EC2) of CD9 antigen, a 24 kDa single transmembrane polypeptide expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes.
Formulation:	Phosphate buffered saline (PBS) containing 15 mM sodium azide Label: FITC State: Liquid purified Ig fraction Label: Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated and adjusted for direct use.
Conjugation:	FITC
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:	<a href="#">Entrez Gene 928 Human P21926</a>



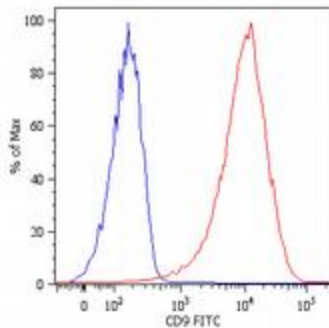
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**Background:**

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

**Product images:**

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.