

Product datasheet for **BM4047S**

CD31 (PECAM1) Mouse Monoclonal Antibody [Clone ID: MEM-05]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-05
Applications:	FC, WB
Recommended Dilution:	Flow Cytometry: 1-10 µg/ml. Western Blot (non reducing conditions).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Leucocytes of patient suffering from LGL-type leukaemia
Specificity:	The antibody reacts with CD31, a 130-140 kDa type I transmembrane glycoprotein expressed on monocytes, platelets, granulocytes, endothelial cells and stem cells of the myeloid lineage.
Formulation:	Phosphate buffered saline (PBS) with 15 mM Sodium Azide, approx. pH 7.4 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	platelet and endothelial cell adhesion molecule 1
Database Link:	Entrez Gene 5175 Human P16284



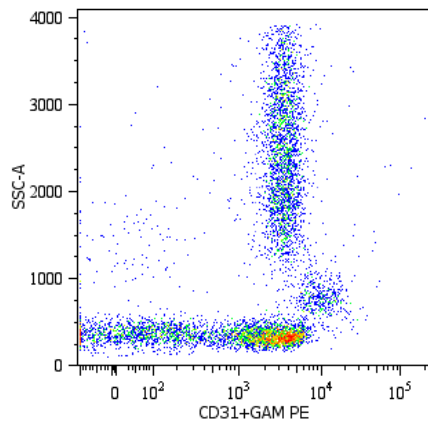
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Background:

CD31 (platelet endothelial cell adhesion molecule-1, PECAM-1) is an inhibitory coreceptor involved in regulation of T cell and B cell signaling by a dual immunoreceptor tyrosine-based inhibitory motif (ITIM) that upon associated kinases-mediated phosphorylation provide docking sites for protein-tyrosine phosphatases. CD31 is expressed ubiquitously within the vascular compartment and is located mainly at junctions between adjacent cells. N-terminal Ig-like domain of CD31 is responsible for its homophilic binding, which plays an important role in cell-cell interactions. CD31 is a multifunctional molecule with diverse roles in modulation of integrin-mediated cell adhesion, transendothelial migration, angiogenesis, apoptosis, negative regulation of immunoreceptor signaling, autoimmunity, macrophage phagocytosis, IgE-mediated anaphylaxis and thrombosis. It is one of key regulatory molecules in vascular system.

Synonyms:

PECAM-1, EndoCAM, GPIIA'

Product images:

Surface staining of lysed and wash human peripheral blood with purified anti-human CD31 (MEM-05) (detection by Goat anti-mouse IgG1 PE).