

## Product datasheet for **BM4047R**

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

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-05
Applications:	FC
Recommended Dilution:	Suitable for <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. The content of a vial (2 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Leukocytes of patient suffering from LGL-type leukaemia
Specificity:	The antibody MEM-05 reacts with CD31 (PECAM-1), a 130-140 kDa type I transmembrane glycoprotein expressed on monocytes, platelets, granulocytes, endothelial cells and stem cells of the myeloid lineage.
Formulation:	PBS containing 15 mM sodium azide as preservative and 0.2 % (w/v) high-grade BSA (Protease free) as stabilizer. Label: PE State: Liquid purified Ig fraction Label: Conjugated with R-Phycoerythrin under optimum conditions
Purification:	Size-exclusion chromatography
Conjugation:	PE
Storage:	Store the antibody in the dark at 2-8°C. <b>Do Not Freeze!</b> Avoid prolonged exposure to light.
Stability:	Shelf life: One year from despatch.
Gene Name:	platelet and endothelial cell adhesion molecule 1
Database Link:	<a href="#">Entrez Gene 5175 Human P16284</a>



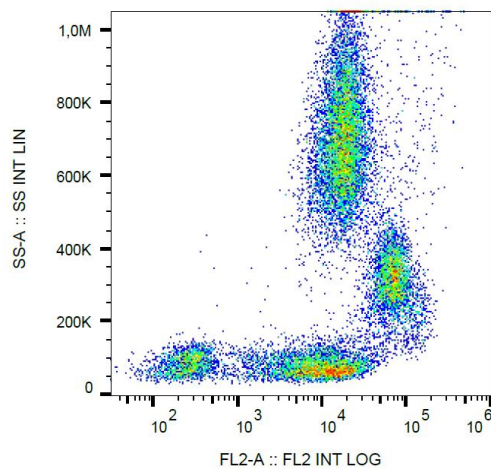
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**Background:**

CD31 (platelet endothelial cell adhesion molecule-1, PECAM-1) is an inhibitory coreceptor involved in rebulation 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 human peripheral blood with anti-human CD31 (MEM-05) PE.