

## Product datasheet for **SM272R**

### **Pecam1 Mouse Monoclonal Antibody [Clone ID: TLD-3A12]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	TLD-3A12
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry.</b>
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Activated, Lewis rat derived microglial cells.
Specificity:	This antibody recognises PECAM-1 (CD31), a type 1 transmembrane protein expressed primarily on endothelial cells, platelets and leucocytes. Clone TLD-3A12 has been shown to partially block the proliferative response of antigen-specific CD4+ T cells to antigen-presenting cells and relevant antigen (3). We recommend the use of SM272LE for use in Functional Studies.
Formulation:	PBS containing 1% BSA, 5% Sucrose and 0.09% Sodium Azide Label: PE State: Lyophilized purified IgG fraction Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with 1 ml distilled water
Purification:	Affinity Chromatography on Protein G
Conjugation:	PE
Storage:	Prior to and following reconstitution store undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This antibody should be protected from light as the PE-labelled product is photosensitive.
Stability:	Shelf life: one year from despatch.
Gene Name:	platelet and endothelial cell adhesion molecule 1
Database Link:	<a href="#">Entrez Gene 29583 Rat Q3SWT0</a>



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**Background:**

CD31, also known as platelet endothelial cell adhesion molecule 1 (PECAM1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed on the surface of endothelial cells, and concentrated at the junction between them. It is also weakly expressed on many peripheral lymphoid cells and platelets.

CD31 has been used to measure angiogenesis in association with tumor recurrence. Other studies have also indicated that CD31 and CD34 can be used as markers for myeloid progenitor cells and recognize different subsets of myeloid leukemia infiltrates (granular sarcomas).

**Synonyms:**

PECAM-1, EndoCAM, GPIIA'