

For Research Use Only

# CD31 Recombinant antibody

Catalog Number: 84607-4-RR



## Basic Information

<b>Catalog Number:</b> 84607-4-RR	<b>GenBank Accession Number:</b> NM_001305157.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 18613	<b>CloneNo.:</b> 242041E12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q08481-1	<b>Recommended Dilutions:</b> IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> platelet/endothelial cell adhesion molecule 1	
	<b>Calculated MW:</b> 81 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, ELISA	<b>Positive Controls:</b> IF/ICC : bEnd.3 cells,
<b>Species Specificity:</b> mouse	

## Background Information

Platelet endothelial cell adhesion molecule-1 (PECAM-1, CD31) is a member of the immunoglobulin gene superfamily of cell adhesion molecules. CD31 is a transmembrane glycoprotein that is highly expressed on the surface of the endothelium, making up a large portion of its intracellular junctions. PECAM-1 is also present on the surface of hematopoietic cells and immune cells including platelets, monocytes, neutrophils, natural killer cells, megakaryocytes and some types of T-cell (PMID: 9011572). As well as its role in cell-cell adhesion, PECAM-1 functions as a signaling receptor, and is involved in important physiological events such as nitric oxide production, regulation of T-cell immunity and tolerance, leukocyte transendothelial migration and inflammation and angiogenesis (PMID: 21183735; 20978210; 17872453; 20634489).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

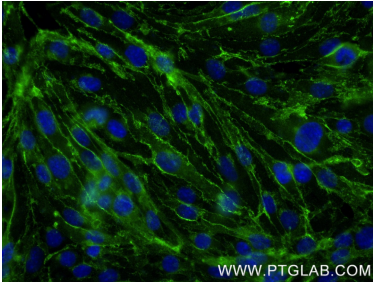
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using CD31/PECAM-1 antibody (84607-4-RR, Clone: 242041E12) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).