

For Research Use Only

# CD31 Polyclonal antibody

Catalog Number: 33075-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 33075-1-AP	<b>GenBank Accession Number:</b> NP_113779.1	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 29583	<b>Recommended Dilutions:</b> WB: 1:1000-1:6000 IHC: 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q3SWT0	
<b>Isotype:</b> IgG	<b>Full Name:</b> platelet/endothelial cell adhesion molecule 1	
<b>Immunogen Catalog Number:</b> EG1456	<b>Calculated MW:</b> 76kDa	
	<b>Observed MW:</b> 100-120 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC	<b>WB :</b> bEnd.3 cells, rat lung tissue
<b>Species Specificity:</b> mouse, rat	<b>IHC :</b> rat lung tissue, rat kidney tissue
<b>Cited Species:</b> rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Linzhi Gao	39995273	Int J Stem Cells	IHC

## Storage

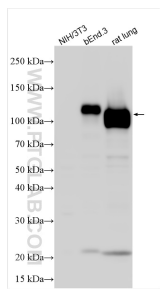
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

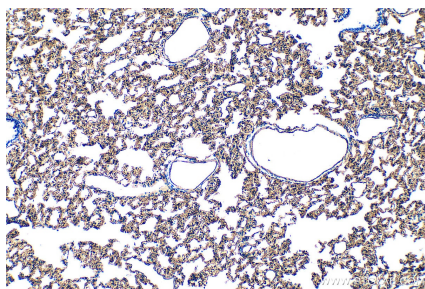
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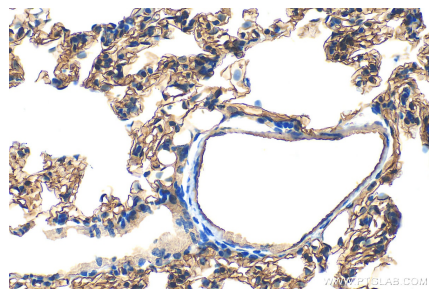
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33075-1-AP (CD31 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using 33075-1-AP (CD31 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using 33075-1-AP (CD31 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).