

For Research Use Only

# CD31 Polyclonal antibody

Catalog Number: 33075-1-AP

1 Publications



## Basic Information

Catalog Number:

33075-1-AP

Concentration:

450 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1456

GenBank Accession Number:

NP\_113779.1

GeneID (NCBI):

29583

UNIPROT ID:

Q3SWT0

Full Name:

platelet/endothelial cell adhesion molecule 1

Calculated MW:

76kDa

Observed MW:

100-120 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB: 1:1000-1:6000

IHC: 1:500-1:2000

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

IHC

Species Specificity:

mouse, rat

Cited Species:

rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : bEnd.3 cells, rat lung tissue

IHC : rat lung tissue, rat kidney tissue

## 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

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

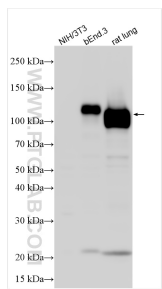
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

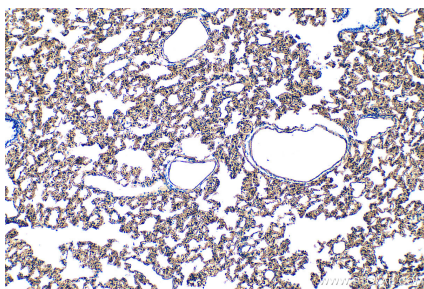
W: [ptgcn.com](http://ptgcn.com)

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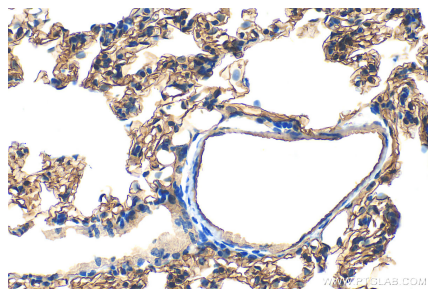
# Selected Validation Data



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).