

For Research Use Only

mouse CD31 Polyclonal antibody

Catalog Number: 28083-1-AP

35 Publications



Basic Information

Catalog Number: 28083-1-AP	GenBank Accession Number: NM_001032378	Purification Method: Antigen affinity purification
Size: 700 µg/ml	GeneID (NCBI): 18613	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:4000-1:16000 IF 1:4000-1:16000
Source: Rabbit	UNIPROT ID: Q08481	
Isotype: IgG	Full Name: platelet/endothelial cell adhesion molecule 1	
Immunogen Catalog Number: AG27828	Calculated MW: 81 kDa	
	Observed MW: 110-130 kDa	

Applications

Tested Applications:

IF-P, IHC, WB, ELISA

Cited Applications:

WB, IHC, IF, FC

Species Specificity:

mouse

Cited Species:

human, rat, mouse

Positive Controls:

WB : bEnd.3 cells, mouse liver tissue, mouse spleen tissue

IHC : mouse liver tissue, mouse brain tissue, mouse spleen tissue

IF : mouse liver tissue,

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

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
Wei Wei	36115458	J Biol Chem	IF
Zhigang Zhang	34721375	Front Immunol	IF
Ping Liu	34900667	Front Oncol	IF

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:

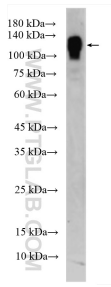
T: 4006900926

E: Proteintech-CN@ptglab.com

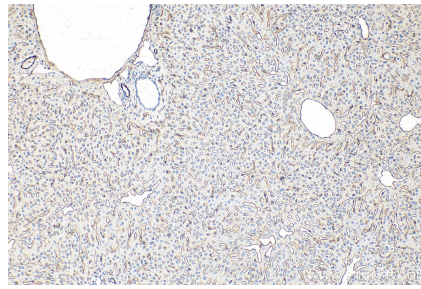
W: ptgcn.com

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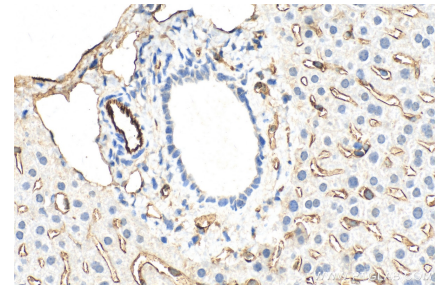
Selected Validation Data



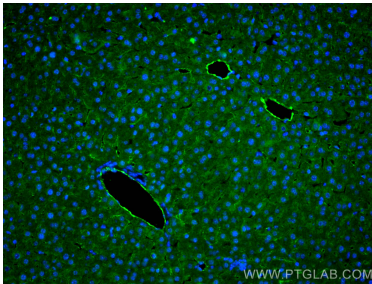
bEnd.3 cells were subjected to SDS PAGE followed by western blot with 28083-1-AP (CD31 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



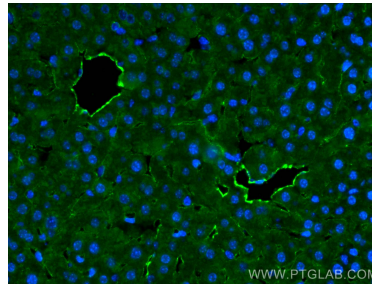
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 28083-1-AP (CD31 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 28083-1-AP (CD31 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using CD31 antibody (28083-1-AP) at dilution of 1:8000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using CD31 antibody (28083-1-AP) at dilution of 1:8000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).