

For Research Use Only

mouse CD31 Polyclonal antibody

Catalog Number: 28083-1-AP

36 Publications



Basic Information

Catalog Number: 28083-1-AP	GenBank Accession Number: NM_001032378	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop;	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:

WB, IF, IHC, ELISA

Cited Applications:

WB, IF, FC, IHC

Species Specificity:

mouse

Cited Species:

rat, mouse

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, mouse liver tissue, mouse spleen tissue

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

IF : mouse liver 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
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

*** 20ul sizes contain 0.1% BSA

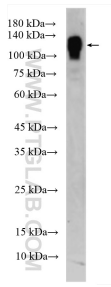
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

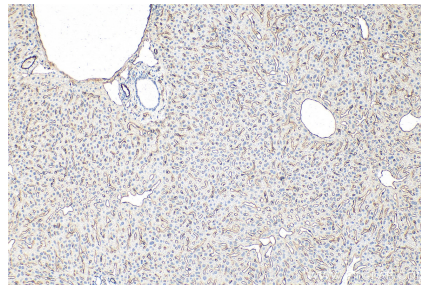
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

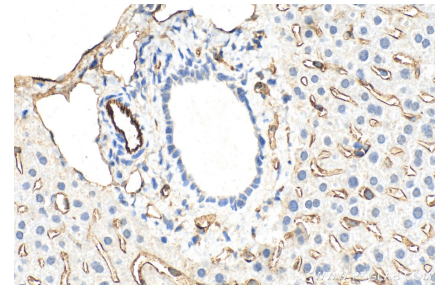
Selected Validation Data



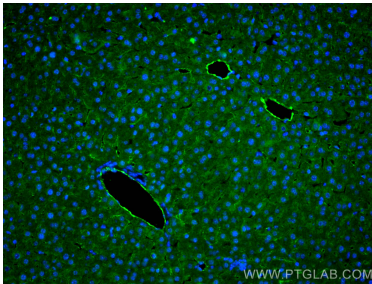
bEnd.3 cells were subjected to SDS PAGE followed by western blot with 28083-1-AP (CD31 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



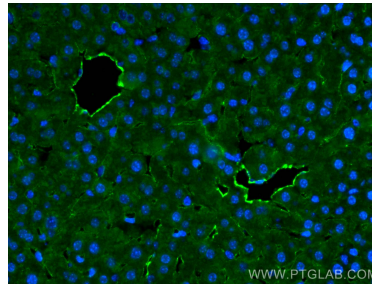
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 28083-1-AP (CD31 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).