For Research Use Only

CD31 Polyclonal antibody

Catalog Number:28083-1-AP 102 Publications



Basic Information

Catalog Number: GenBank Accession Number:

 28083-1-AP
 NM_001032378

 Size:
 Genel D (NCBI):

 150ul , Concentration: 700 ug/ml by
 18613

Nanodrop; UNIPROT ID:
Source: Q08481
Rabbit Full Name:

Isotype: platelet/endothelial cell adhesion

IgG molecule 1
Immunogen Catalog Number: Calculated MW:
AG27828 81 kDa

Observed MW: 110-130 kDa

Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

mouse
Cited Species:
human, 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

Purification Method:

WB: 1:1000-1:8000 IHC: 1:4000-1:16000

IF-P: 1:200-1:800

IF-Fro: 1:200-1:800

Antigen affinity purification

Recommended Dilutions:

tissue

IHC : mouse liver tissue, mouse brain tissue, mouse

kidney tissue, mouse spleen tissue

IF-P: mouse brain tissue, mouse kidney tissue

IF-Fro: mouse brain 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, pH7.3 $\,$

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

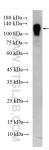
For technical support and original validation data for this product please contact:

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

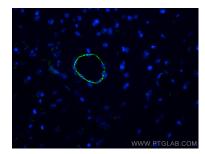
W: ptglab.com

This product is exclusively available under Proteintech
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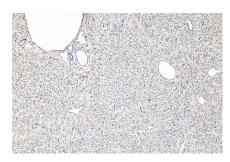
Selected Validation Data



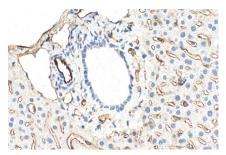
bEnd.3 cells were subjected to SDS PAGE followed by western blot with 28083-1-AP (CD31 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



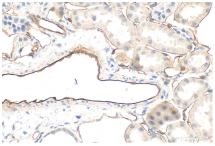
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using CD31 antibody (28083-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



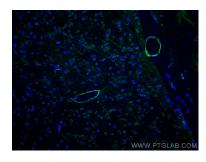
Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 28083-1-AP (CD31 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



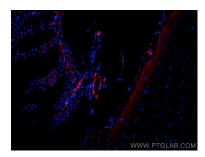
Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 28083-1-AP (CD31 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



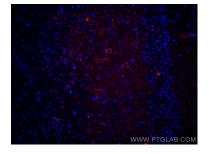
Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 28083-1-AP (CD31 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using CD31 antibody (28083-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using CD31 antibody (28083-1-AP) at dilution of 1:400 and Coral.ite@594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using CD31 antibody (28083-1-AP) at dilution of 1:400 and Coralite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).