

For Research Use Only

CD31 Recombinant antibody, PBS Only

Catalog Number: 80530-1-PBS



Basic Information

Catalog Number: 80530-1-PBS	GenBank Accession Number: BC022512	Purification Method: Protein A purification
Concentration: 1mg/ml	GeneID (NCBI): 5175	CloneNo.: 4N13
Source: Rabbit	ENSEMBL Gene ID: ENSG00000261371	
Isotype: IgG	UNIPROT ID: P16284	
Immunogen Catalog Number: AG1787	Full Name: platelet/endothelial cell adhesion molecule	
	Calculated MW: 83 kDa	
	Observed MW: 130 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse

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).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

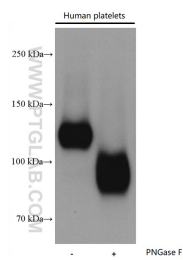
T: 4006900926

E: Proteintech-CN@ptglab.com

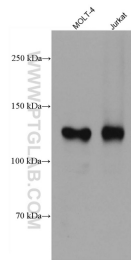
W: ptgcn.com

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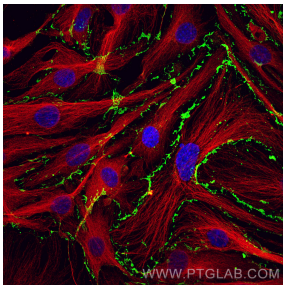
Selected Validation Data



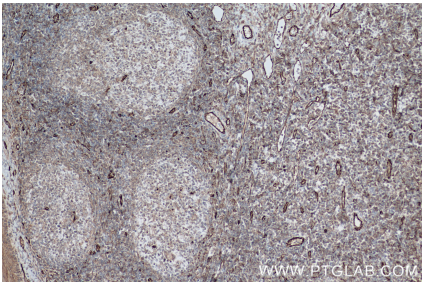
Untreated and PNGase F-treated lysates of human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 80530-1-RR (CD31 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80530-1-PBS in a different storage buffer formulation.



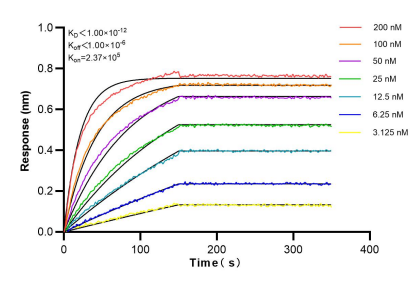
Various lysates were subjected to SDS PAGE followed by western blot with 80530-1-RR (CD31 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80530-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using CD31 antibody (80530-1-RR, Clone: 4N13) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red). This data was developed using the same antibody clone with 80530-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80530-1-RR (CD31 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80530-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 80530-1-RR against Human CD31 were performed. The affinity constant is below 1 pM.