

For Research Use Only

# CD31 Recombinant antibody, PBS Only

Catalog Number: 80530-1-PBS



## Basic Information

<b>Catalog Number:</b> 80530-1-PBS	<b>GenBank Accession Number:</b> BC022512	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5175	<b>CloneNo.:</b> 4N13
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000261371	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P16284	
<b>Immunogen Catalog Number:</b> AG1787	<b>Full Name:</b> platelet/endothelial cell adhesion molecule	
	<b>Calculated MW:</b> 83 kDa	
	<b>Observed MW:</b> 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

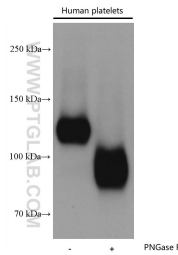
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

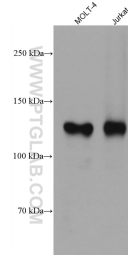
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

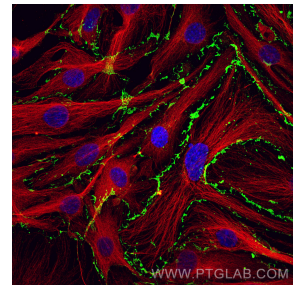
## Selected Validation Data



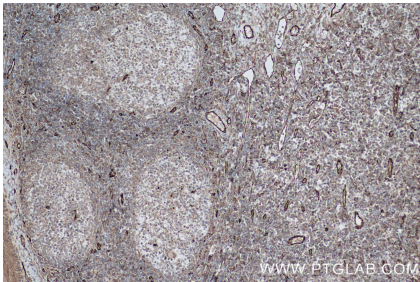
Untreated and PNGase F-treated lysates of human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 80530-1-RR (CD31 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80530-1-PBS in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



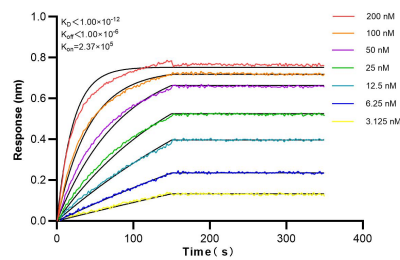
Various lysates were subjected to SDS PAGE followed by western blot with 80530-1-RR (CD31 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80530-1-PBS in a different storage buffer formulation.



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.