

For Research Use Only

Podocalyxin Recombinant monoclonal antibody

Catalog Number: 87582-2-RR



Basic Information

Catalog Number: 87582-2-RR	GenBank Accession Number: NM_013723.3	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 27205	CloneNo.: 252967A3
Source: Rabbit	UNIPROT ID: Q9R0M4	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:1000-1:4000 IF-P: 1:50-1:500
Isotype: IgG	Full Name: podocalyxin-like	
Immunogen Catalog Number: EG7526	Calculated MW: 53 kDa	
	Observed MW: 140-160 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Species Specificity:
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 : mouse kidney tissue, bEnd.3 cells, 4T1 cells, mouse lung tissue

IHC : mouse kidney tissue,

IF-P : mouse kidney tissue,

Background Information

Podocalyxin, also known as podocalyxin-like protein 1 (PODXL or PCLP1), is a transmembrane glycoprotein belonging to the CD34 family of sialomucins. Podocalyxin was originally identified as the major sialoprotein on podocytes of the kidney glomerulus but was later found to be expressed on vascular endothelial cells and early hematopoietic progenitors. It is involved in the regulation of both adhesion and cell morphology. In addition, podocalyxin is highly expressed in embryonic stem cells and aberrant expression of podocalyxin has been implicated in a wide range of cancers. Podocalyxin is a protein with a peptide bone of 55.5 kDa that undergoes a post-translational glycosylation, the different molecular mass of podocalyxin indicates the extent and variability of glycosylation patterns (PMID: 17092254).

Storage

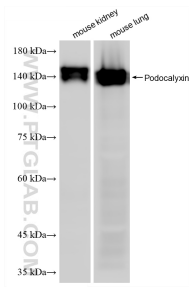
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

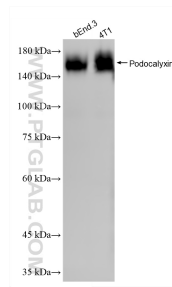
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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

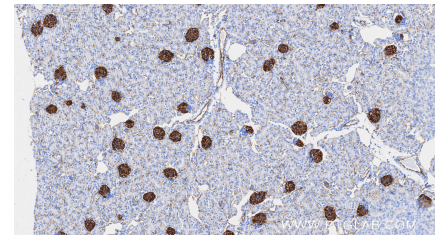
Selected Validation Data



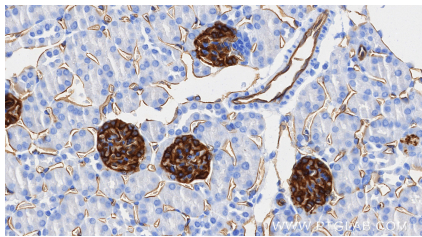
Various lysates were subjected to SDS PAGE followed by western blot with 87582-2-RR (Podocalyxin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



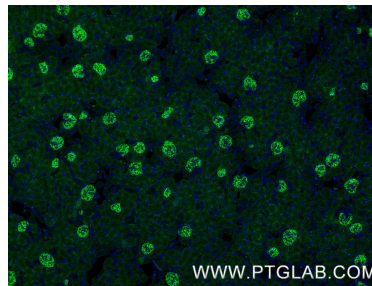
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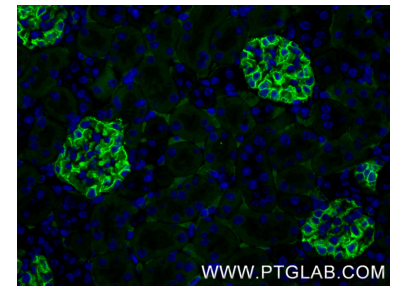
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 87582-2-RR (Podocalyxin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



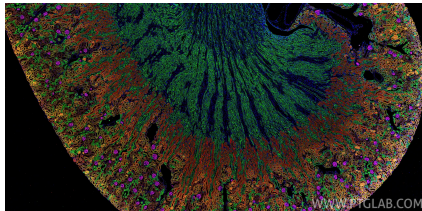
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 87582-2-RR (Podocalyxin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



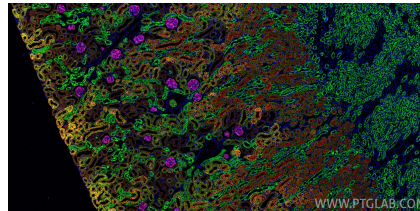
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using Podocalyxin antibody (87582-2-RR, Clone: 252967A3) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



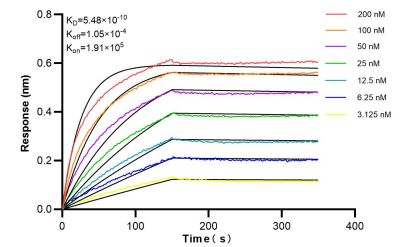
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Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using Podocalyxin antibody (87582-2-RR, Clone: 252967A3) at dilution of 1:500 and CoraLite® 647-conjugated F(ab')₂ Fragment Goat Anti-Rabbit IgG (H+L) (SA00014-9), CoraLite® 594 ACE2 antibody (CL594-21115, red), E-cadherin antibody (60335-1-Ig, Clone: 6B11F11, green). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using Podocalyxin antibody (87582-2-RR, Clone: 252967A3) at dilution of 1:500 and CoraLite® 647-conjugated F(ab')₂ Fragment Goat Anti-Rabbit IgG (H+L) (SA00014-9), CoraLite® 594 ACE2 antibody (CL594-21115, red), E-cadherin antibody (60335-1-Ig, Clone: 6B11F11, green). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 87582-2-RR against Mouse Podocalyxin were performed. The affinity constant is 0.548 nM.