

For Research Use Only

# Podocalyxin Recombinant monoclonal antibody

Catalog Number: 87582-2-RR



## Basic Information

<b>Catalog Number:</b> 87582-2-RR	<b>GenBank Accession Number:</b> NM_013723.3	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 27205	<b>CloneNo.:</b> 252967A3
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q9ROM4	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:1000-1:4000 IF-P: 1:50-1:500
<b>Immunogen Catalog Number:</b> EG7526	<b>Full Name:</b> podocalyxin-like	
	<b>Calculated MW:</b> 53 kDa	
	<b>Observed MW:</b> 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

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

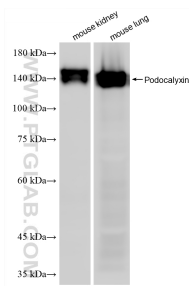
T: 4006900926

E: Proteintech-CN@ptglab.com

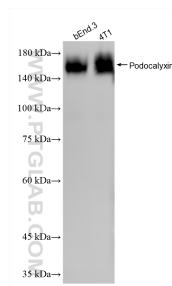
W: ptgcn.com

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

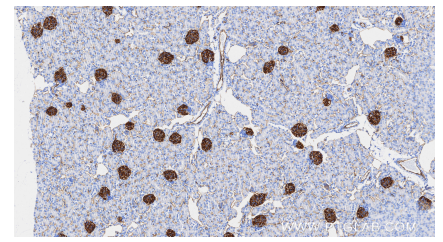
## Selected Validation Data



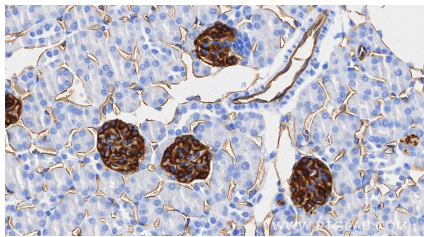
Various lysates were subjected to SDS PAGE followed by western blot with 87582-2-RR (Podocalyxin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



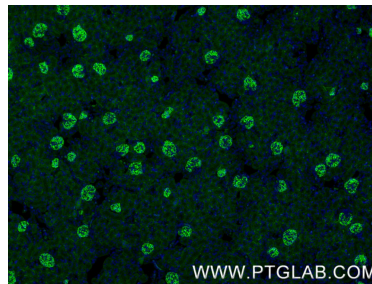
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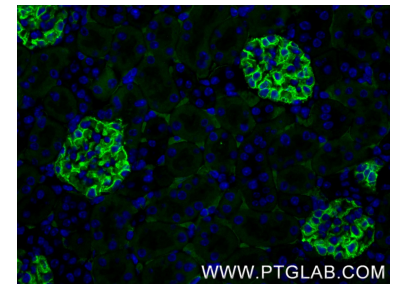
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 87582-2-RR (Podocalyxin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



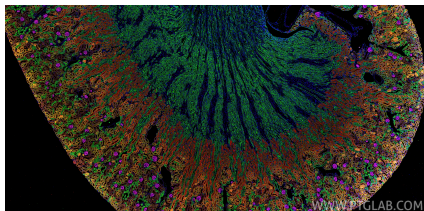
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 87582-2-RR (Podocalyxin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



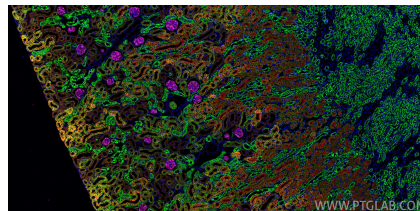
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using Podocalyxin antibody (87582-2-RR, Clone: 252967A3) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



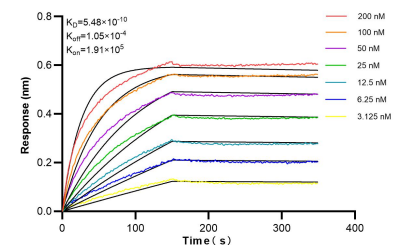
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Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using Podocalyxin antibody (87582-2-RR, Clone: 252967A3) at dilution of 1:500 and CoraLite® 647-conjugated F(ab')<sub>2</sub> Fragment Goat Anti-Rabbit IgG (H+L) (SA00014-9), 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')<sub>2</sub> 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.