

For Research Use Only

# Podocalyxin Polyclonal antibody

Catalog Number: 18150-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

18150-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 260 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12844

### GenBank Accession Number:

BC093730

### GeneID (NCBI):

5420

### UNIPROT ID:

O00592

### Full Name:

podocalyxin-like

### Calculated MW:

526 aa, 55 kDa

### Observed MW:

60-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:500-1:4000

IF-P 1:400-1:1600

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human

### Cited Species:

human

**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 : human kidney tissue, HEK-293 cells, HepG2 cells

IHC : human kidney tissue, human endometrial cancer tissue, human lung tissue

IF-P : human 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Rohit Budhreja	36102038	J Inherit Metab Dis	WB
Julie Bejoy	34746862	STAR Protoc	IF
Akiko Tanoue	34654837	Sci Rep	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

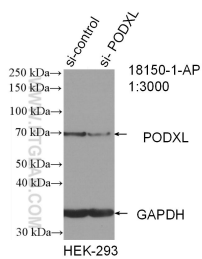
For technical support and original validation data for this product please contact:

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

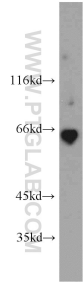
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

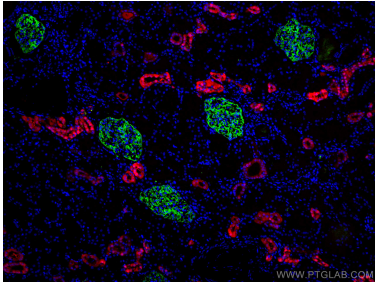
Selected Validation Data



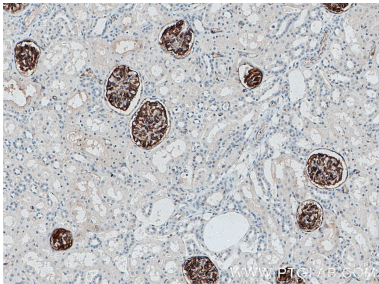
WB result of Podocalyxin antibody (18150-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Podocalyxin transfected HEK-293 cells.



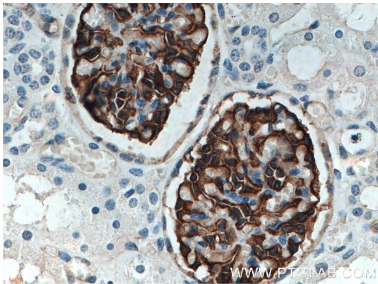
human kidney tissue were subjected to SDS PAGE followed by western blot with 18150-1-AP (PODXL antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using Podocalyxin antibody (18150-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Calbindin-D28k antibody (66394-1-Ig, Clone: 1F8B9, red).



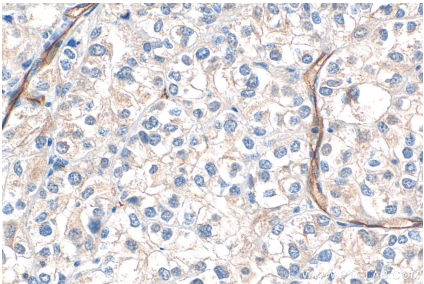
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18150-1-AP (Podocalyxin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18150-1-AP (Podocalyxin antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using 18150-1-AP (Podocalyxin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using 18150-1-AP (Podocalyxin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).