For Research Use Only

# Podocalyxin Polyclonal antibody

Catalog Number:18150-1-AP Featured Product 14 Publications

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## Basic Information

Catalog Number:
18150-1-AP

Concentration:
500 ug/ml

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

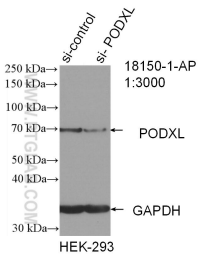
| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Rohit Budhraja | 36102038 | J Inherit Metab Dis | WB |
| Julie Bejoy | 34746862 | STAR Protoc | IF |
| Akiko Tanoue | 34654837 | Sci Rep | WB |

## Storage

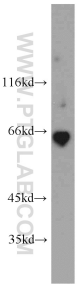
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

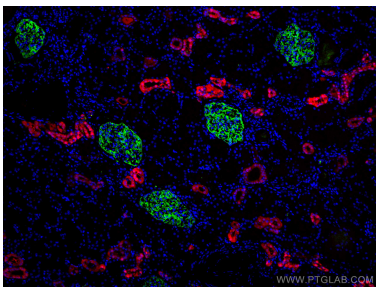
## Selected Validation Data



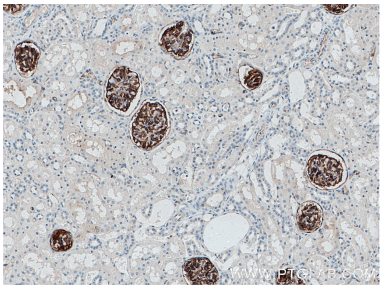

WB result of Podocalyxin antibody (18150-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Podocalyxin transfected HEK-293 cells.



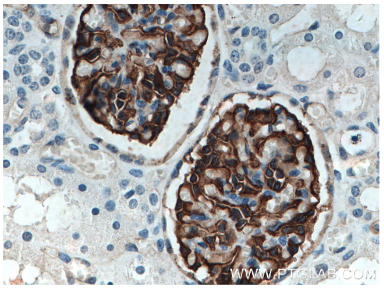

human kidney tissue were subjected to SDS PAGE followed by western blot with 18150-1-AP (PODXL antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



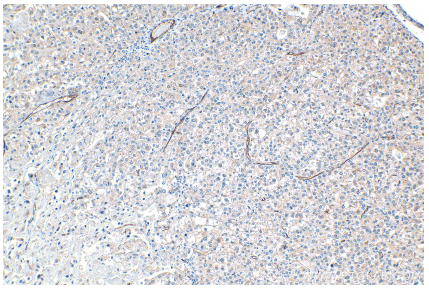

Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using Podocalyxin antibody (18150-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Calbindin-D28k antibody (66394-1-Ig, Clone: 1F8B9, red).



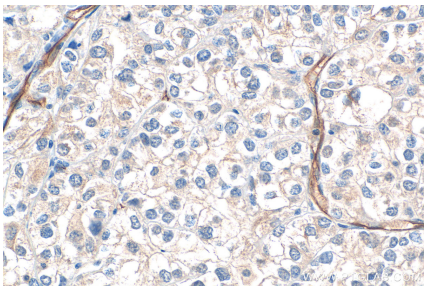
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18150-1-AP (Podocalyxin antibody) at dilution of 1:4000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).