

# Podocalyxin Monoclonal antibody

Catalog Number: 68250-1-Ig

## Basic Information

**Catalog Number:**

68250-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG12859

**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:**

Protein A purification

**CloneNo.:**

4A3C7

**Recommended Dilutions:**

IHC 1:500-1:2000

IF-P 1:200-1:800

## Applications

**Tested Applications:**

IF-P, IHC, ELISA

**Species Specificity:**

Human

**Positive Controls:**

IHC : human kidney tissue,

IF-P : human kidney tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

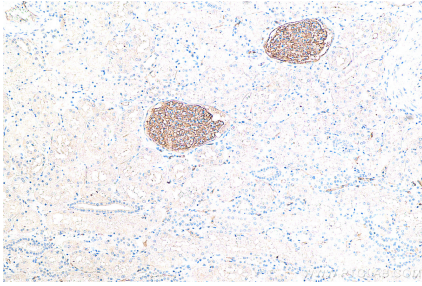
For technical support and original validation data for this product please contact:

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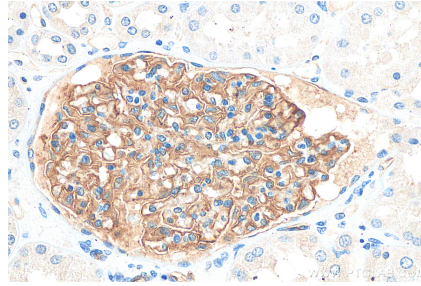
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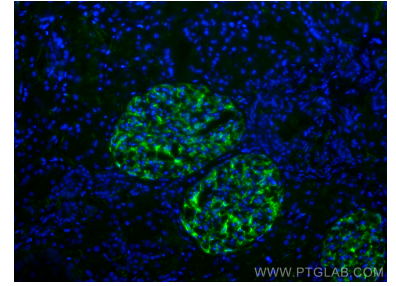
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 68250-1-Ig (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 kidney tissue slide using 68250-1-Ig (Podocalyxin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using Podocalyxin antibody (68250-1-Ig, Clone: 4A3C7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).