

For Research Use Only

Podocalyxin Monoclonal antibody

Catalog Number: 68250-1-Ig 1 Publications



Basic Information

Catalog Number:	68250-1-Ig	GenBank Accession Number:	BC093730	Purification Method:	Protein A purification
Size:	150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI):	5420	CloneNo.:	4A3C7
Source:	Mouse	UNIPROT ID:	O00592	Recommended Dilutions:	IHC 1:500-1:2000 IF-P 1:200-1:800
Isotype:	IgG2a	Full Name:	podocalyxin-like		
Immunogen Catalog Number:	AG12859	Calculated MW:	526 aa, 55 kDa		
		Observed MW:	60-70 kDa		

Applications

Tested Applications:	IHC, IF-P, ELISA	Positive Controls:	
Cited Applications:	IF	IHC :	human kidney tissue,
Species Specificity:	Human	IF-P :	human kidney tissue,
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			

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaojing Liu	39776814	Theranostics	IF

Storage

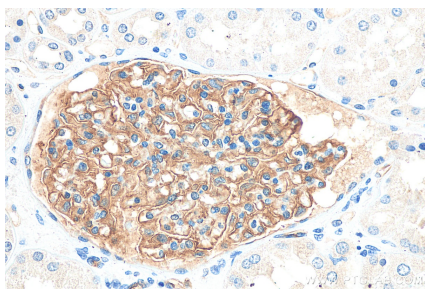
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

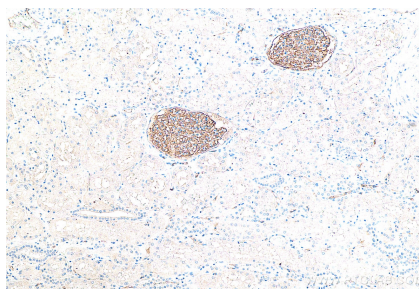
For technical support and original validation data for this product please contact:
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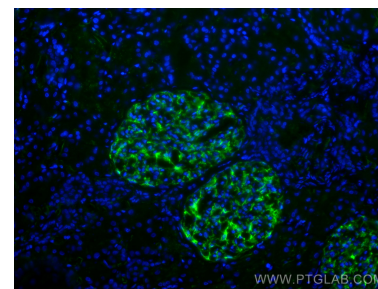
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 68250-1-Ig (Podocalyxin antibody) at dilution of 1:1000 (under 40x 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 10x 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 Goat Anti-Mouse IgG(H+L).