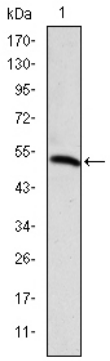
Podocalyxin-like 1 Monoclonal Antibody

Catalog No	YP-Ab-13820
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;FCM;ELISA
Gene Name	PODXL
Protein Name	Podocalyxin
Immunogen	Purified recombinant fragment of human Podocalyxin-like 1 expressed in E. Coli.
Specificity	Podocalyxin-like 1 Monoclonal Antibody detects endogenous levels of Podocalyxin-like 1 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PODXL; PCLP; PCLP1; Podocalyxin; GCTM-2 antigen; Gp200; Podocalyxin-like protein 1; PC; PCLP-1
Observed Band	
Cell Pathway	Apical cell membrane. Cell projection, lamellipodium. Cell projection, filopodium. Cell projection, ruffle. Cell projection, microvillus . Membrane raft . Membrane ; Single-pass type I membrane protein . In single attached epithelial cells is restricted to a preapical pole on the free plasma membrane whereas other apical and basolateral proteins are not yet polarized. Colocalizes with SLC9A3R2 at the apical plasma membrane during epithelial polarization. Colocalizes with SLC9A3R1 at the trans-Golgi network (transiently) and at the apical plasma membrane. Its association with the membrane raft is transient. Colocalizes with actin filaments, EZR and SLC9A3R1 in a punctate pattern at the apical cell surface where microvilli form. Colocalizes with EZR and SLC9A3R2 at the apical cell membrane o
Tissue Specificity	Glomerular epithelium cell (podocyte).
Function	function:Functions as an antiadhesin that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion.,PTM:Glycosylated; contains sialic acid.,similarity:Belongs to the podocalyxin family.,tissue specificity:Glomerular epithelium cell (podocyte).,
Background	podocalyxin like(PODXL) Homo sapiens This gene encodes a member of the sialomucin protein family. The encoded protein was originally identified as an

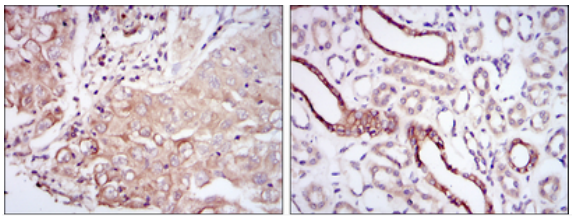
important component of glomerular podocytes. Podocytes are highly differentiated epithelial cells with interdigitating foot processes covering the outer aspect of the glomerular basement membrane. Other biological activities of the encoded protein include: binding in a membrane protein complex with Na+/H+ exchanger regulatory factor to intracellular cytoskeletal elements, playing a role in hematopoetic cell differentiation, and being expressed in vascular endothelium cells and binding to L-selectin. [provided by RefSeq, Jul 2008],

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

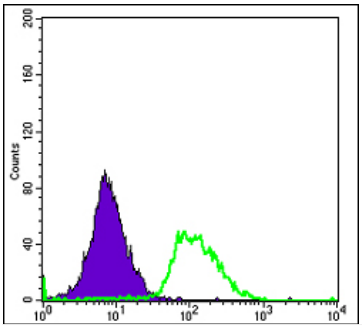
Products Images



Western Blot analysis using Podocalyxin-like 1 Monoclonal Antibody against recombinant protein.



Immunohistochemistry analysis of paraffin-embedded lung cancer tissues (left) and kidney tissues (right) with DAB staining using Podocalyxin-like 1 Monoclonal Antibody.



Flow cytometric analysis of Hela cells using Podocalyxin-like 1 Monoclonal Antibody (green) and negative control (purple).