PODXL Mouse mAb

CatalogNo: YM0526

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,IHC,IF,FC,ELISA

MW
- 59kD (Calculated)

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:200-1:1000
Flow Cyt 1:200-1:400
ELISA 1:10000
IF 1:50-200

Basic Information

Clonality	Monoclonal
Clone Number	19H4

Immunogen Information

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.

Target Information

Gene name PODXL

Protein Name Podocalyxin

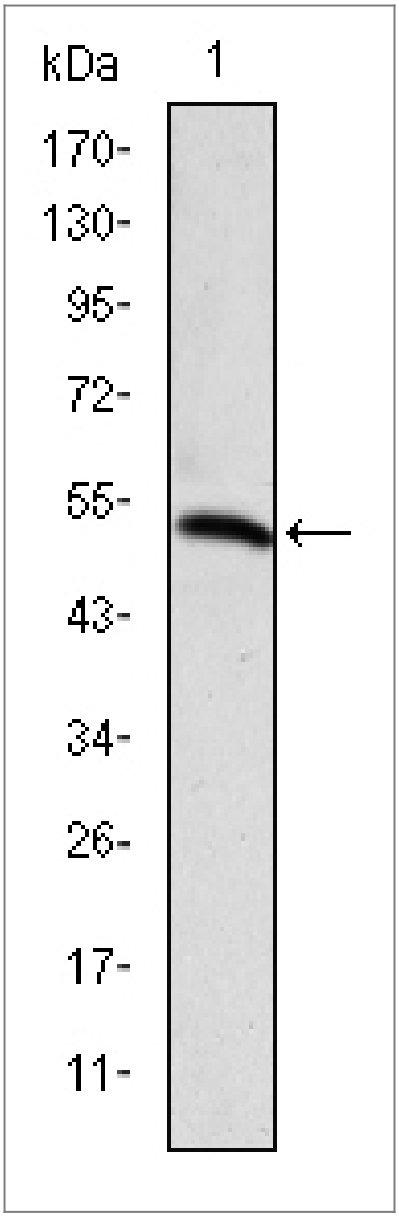
Organism	Gene ID	UniProt ID
Human	5420;	O00592;
Mouse		Q9R0M4;

Cellular Localization 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 of glomerular epithelium cells (By similarity). Forms granular, punctuated pattern, forming patches, preferentially adopting a polar distribution, located on the migrating poles of the cell or forming clusters along the terminal ends of filipodia establishing contact with the endothelial cells. Colocalizes with the submembrane actin of lamellipodia, particularly associated with ruffles. Colocalizes with vinculin at protrusions of cells. Colocalizes with ITGB1. Colocalizes with PARD3, PRKCI, EXOC5, OCLN, RAB11A and RAB8A in apical membrane initiation sites (AMIS) during the generation of apical surface and luminogenesis (By similarity). .

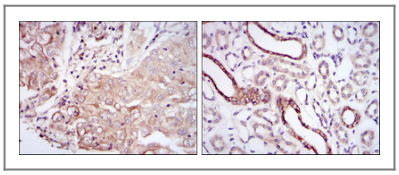
Tissue specificity Glomerular epithelium cell (podocyte).

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).,

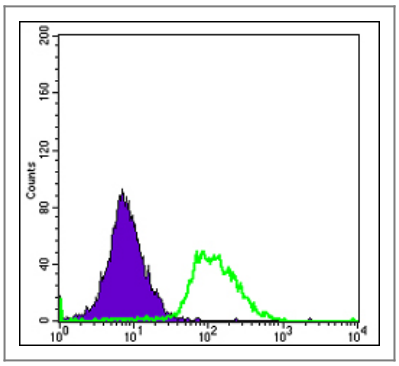
Validation Data



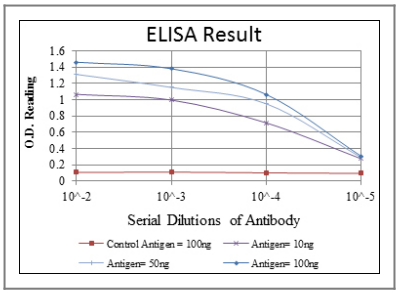
Western Blot analysis using Podocalyxin-like 1 Monoclonal Antibody against recombinant protein.



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).



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Please scan the QR code to access additional product information:
PODXL Mouse mAb