Podocalyxin (PODXL) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Podocalyxin (PODXL), Polyclonal Antibody
Full Product Name	Rabbit anti-human Podocalyxin polyclonal Antibody, FITC
Product Gene Name	anti-PODXL antibody
Product Synonym Names	GCTM-2 antigen; Gp200; Podocalyxin-like protein 1; PCLP; PCLP1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: Podocalyxin (MBS7000480) FITC Conjugated Antibody: PODXL (MBS1491334)
Molecular Weight	55,386 Da
OMIM	602632
3D Structure	ModBase 3D Structure for O00592
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	FITC
Immunogen	Recombinant human Podocalyxin protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-10503 / sc-33138
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PODXL antibody	ELISA (EIA)
Related Product Information for anti-PODXL antibody	Involved in the regulation of both adhesion and cell morphology and cancer progression. Function as an anti-adhesive molecule that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion. Acts as a pro-adhesive molecule, enhancing the adherence of cells to immobilized ligands, increasing the rate of migration and cell-cell contacts in an integrin-dependent manner. Induces the formation of apical actin-dependent microvilli. Involved in the formation of a preapical plasma membrane subdomain to set up inital epithelial polarization and the apical lumen formation during renal tubulogenesis. Plays a role in cancer development and aggressiveness by inducing cell migration and invasion through its interaction with the actin-binding protein EZR. Affects EZR-dependent signaling events, leading to increased activities of the MAPK and PI3K pathways in cancer cells.
Other Notes	Small volumes of anti-PODXL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PODXL purchase	MBS1491334 is an antibody targeting PODXL. Also known as Rabbit anti-human Podocalyxin polyclonal Antibody, FITC. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PODXL. It may not necessarily be applicable to this product.

NCBI GI #	66277202
NCBI GeneID	5420
NCBI Accession #	NP_001018121.1
UniProt Primary Accession #	O00592
UniProt Secondary Accession #	Q52LZ7; Q53ER6; A6NHX8
UniProt Related Accession #	O00592
GenBank Nucleotide #	NM_001018111.2
NCBI Official Full Name	podocalyxin isoform 1
NCBI Official Synonym Full Names	podocalyxin like
NCBI Official Symbol	PODXL
NCBI Official Synonym Symbols	PC; PCLP; Gp200; PCLP-1
UniProt Protein Name	Podocalyxin
UniProt Synonym Protein Names	GCTM-2 antigen; Gp200; Podocalyxin-like protein 1; PC; PCLP-1
Protein Family	Podocalyxin
UniProt Gene Name	PODXL
UniProt Synonym Gene Names	PCLP; PCLP1; PC; PCLP-1
UniProt Entry Name	PODXL_HUMAN
NCBI Protein Information	podocalyxin
NCBI Summary for PODXL	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]

UniProt Comments for PODXL	PODXL: Involved in the regulation of both adhesion and cell morphology and cancer progression. Function as an anti-adhesive molecule that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion. Acts as a pro-adhesive molecule, enhancing the adherence of cells to immobilized ligands, increasing the rate of migration and cell- cell contacts in an integrin-dependent manner. Induces the formation of apical actin-dependent microvilli. Involved in the formation of a preapical plasma membrane subdomain to set up inital epithelial polarization and the apical lumen formation during renal tubulogenesis. Plays a role in cancer development and aggressiveness by inducing cell migration and invasion through its interaction with the actin-binding protein EZR. Affects EZR- dependent signaling events, leading to increased activities of the MAPK and PI3K pathways in cancer cells. Belongs to the podocalyxin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 7q32-q33 Cellular Component: apical plasma membrane; cytoplasm; extracellular space; filopodium; integral to plasma membrane; intracellular membrane-bound organelle; lamellipodium; lipid raft; microvillus membrane; plasma membrane; ruffle Molecular Function: protein binding Biological Process: cell adhesion; cell migration; leukocyte migration; negative regulation of cell adhesion; negative regulation of cell-cell adhesion; positive regulation of cell migration; positive regulation of cell-cell adhesion mediated by integrin; regulation of microvillus biogenesis
Research Articles on PODXL	**1.** miR-125b was found to be important in arteriosclerosis obliterans by suppressing the expression of PODXL and may serve as a potential therapeutic target for the treatment of arteriosclerosis obliterans.
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