Podocalyxin-Like (PODXL) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Podocalyxin-Like (PODXL), Recombinant Protein
Full Product Name	Recombinant Mouse Podocalyxin-Like
Product Gene Name	PODXL recombinant protein
Product Synonym Names	PODXL Mouse; Podocalyxin; Podocalyxin-like protein 1; PC; PCLP-1; Podocalyxin-Like Mouse Recombinant
Sequence	HNGNETSTSA IKSSTVQSHQ SATTSTEVTT GHPVASTLAS TQPSNPTPFT TSTQSPSMPT STPNPTSNQS GGNLTSSVSE VDKTKTSSPS STAFTSSSGQ TASSGGKSGD SFTTAPTTTL GLINVSSQPT DLNTTSKLLS TPTTDNTTSP QQPVDSSPST ASHPVGQHTP AAVPSSSGST PSTDNSTLTW KPTTHKPLGT SEATQPLTSQ TPGITTLPVS TLQQSMASTV GTTTEEFTHL ISNGTPVAPP GPSTPSPIWA FGNYQLNCEP PIRPDEELLI LNLTRASLCE RSPLDEKEKL VELLCHSVKA SFKPAEDLCT LHVAPILDNQ AVAVKRIIIE TKLSPKAVYE LLKDRWDDLT EAGVSDMKLG KEGPPEVNED RFSLEHH HHH H
Host	Sf9, Baculovirus cells
Form/Format	Sterile filtered clear solution. PODXL protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.
Molecular Weight	53,389 Da
3D Structure	ModBase 3D Structure for Q9R0M4
Product Categories/Family for PODXL recombinant protein	Recombinant & Natural Proteins
Related Product Information for PODXL recombinant protein	PODXL Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 391 amino acids (22-404a.a.) and having a molecular mass of 41.0kDa (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). PODXL is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.
Other Notes	Small volumes of PODXL recombinant protein 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	MBS146889 is a recombinant protein targeting PODXL. Also known as Recombinant Mouse Podocalyxin-Like. Host: Sf9, Baculovirus cells.

ADDITIONAL DETAILS

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

NCBI GI #	34328219
NCBI GeneID	27205
NCBI Accession #	NP_038751.2
UniProt Primary Accession #	Q9R0M4
UniProt Secondary Accession #	Q9ESZ1

UniProt Related Accession #	Q9R0M4
GenBank Nucleotide #	NM_013723.3
NCBI Official Full Name	podocalyxin
NCBI Official Synonym Full Names	podocalyxin-like
NCBI Official Symbol	Podxl
NCBI Official Synonym Symbols	PC; Ly102; Pclp1; PCLP-1; AW121214
UniProt Protein Name	Podocalyxin
UniProt Synonym Protein Names	Podocalyxin-like protein 1; PC; PCLP-1
Protein Family	Podocalyxin
UniProt Gene Name	Podxl
UniProt Synonym Gene Names	Pclp1; PC; PCLP-1
NCBI Protein Information	podocalyxin
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: Cell adhesion; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 6 A3.3|6 12.57 cM Cellular Component: apical plasma membrane; microvillus membrane; plasma membrane Biological Process: cell migration; leukocyte migration; negative regulation of cell adhesion; negative regulation of cell-cell adhesion; regulation of microvillus biogenesis
Research Articles on PODXL	**1.** when endogenous podocalyxin was removed from highly metastatic 4T1 mammary tumor cells there was a decrease in collective invasion . Podocalyxin is a tumor cell-intrinsic regulator of experimental collective tumor cell invasion and tumor budding.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/podxl-recombinant-protein/podocalyxin-like/146889