

Recombinant Mouse Podxl Protein, His-tagged

Cat. No. Podxl-7388M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Podxl Protein with a His tag.
Species	Mouse
ProteinLength	22-404
Description	Involved in the regulation of both adhesion and cell morphology and cancer progression. Functions 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 initial 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.
Form	Liquid
Molecular Mass	41.0 kDa
AA Sequence	HNGNETSTSAIKSSTVQSHQSATTSTEVTTGHPVASTLASTQPSNPTPFTTSTQSPS MPTSTPNPTSNQSGGNLTSSVSEVDKTKTSSPSSTAFTSSSGQTASSGGKSGDSFT

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TAPTTTLGLINVSSQPTDLNNTTSKLLSTPTTDNTTSPQQPVDSSPSTASHPVGQHTP
 AAVPSSSSGSTPSTDNSTLTWKPTTHKPLGTSEATQPLTSQTPGITTLPVSTLQQSMA
 STVGTTTEEFTHLISNGTPVAPPGPSTPSPIWAFGNYQLNCEPPIRPDEELLILNLTRA
 SLCERSPLDEKEKLVELLCHSVKASFKAEDLCTLHVAPILDNQAVAVKRIIETKLSPK
 AVYELLKDRWDDLTEAGVSDMKLGKEGPPEVNEDRFSLEHHHHHH

Endotoxin	< 1.0 EU/μg of protein (determined by LAL method)
Purity	> 95 % by SDS-PAGE
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.

GENE INFORMATION

Gene Name	Podxl podocalyxin-like [<i>Mus musculus</i> (house mouse)]
Official Symbol	Podxl
Synonyms	Podxl; podocalyxin-like; P; PC; Pod; Ly10; podo; Ly102; Pclp1; PCLP-1; Podxl1; AW121214; podocalyxin; podocalyxin-like protein 1
Gene ID	27205
mRNA Refseq	NM_013723

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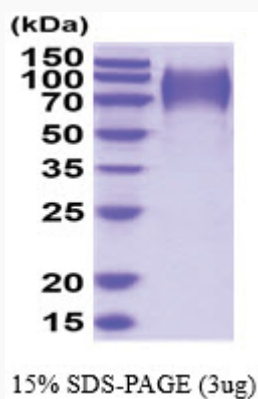
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Protein Refseq NP_038751

UniProt ID Q9R0M4

SDS-PAGE



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