

Recombinant Human PODXL Protein (32-458 aa), His-tagged

Cat. No. PODXL-1640H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human PODXL Protein (32-458 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Partial.

Species Human

Source Yeast

ProteinLength 32-458 aa

Description 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 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 Tris-based buffer, 50% glycerol

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Molecular Mass	46.2 kDa
AA Sequence	<p>QNATQTTTDDSSNKTAPTTPASSVTIMATDTAQQSTVPTSKANEILASVKATTLGVSSDS PGTTTLAQQVSGPVNTTVARGGGSGNPTTTTIESPKSTKSADTTTVATSTATAKPNTT SSQNGAEDTTNSGGKSSHSVTTDLTSTKAEHLTPHPTSPLSPRQPTSTHPVATPTS SGHDHLMKISSSSSTVAIPGYTFTSPGMTTTLLETVFHHVSQAGLELLTSGDLPTLAS QSAGITASSVISQRTQQTSSQMPASSTAPSSQETVQPTSPATALRTPPLPETMSSSP TAASTHRYPKTPSPTVAHESNWAKCEDLETQTQSEKQLVLNLTGNTLCAGGASDE KLISLICRAVKATFNPAQDKCGIRLASVPGSQTVVVKEITIHTKLPKDVYERLKDKWD ELKEAGVSDMKLGDQGPPEEAEDRF</p>
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	PODXL podocalyxin-like [Homo sapiens]
Official Symbol	PODXL
Synonyms	PODXL; podocalyxin-like; podocalyxin; Gp200; PC; PCLP; GCTM-2 antigen; podocalyxin-like protein 1; PCLP-1; MGC138240;

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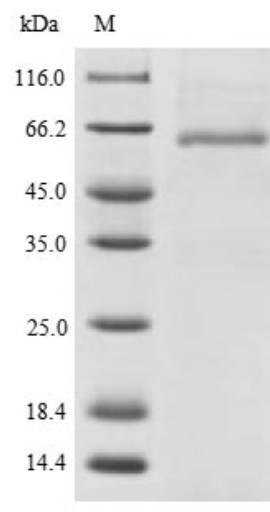
Gene ID 5420

mRNA Refseq NM_001018111

Protein Refseq NP_001018121

MIM 602632

UniProt ID O00592



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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