

Product datasheet for AR52038PU-S

OriGene Technologies, Inc.

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Podocalyxin / PODXL (22-404, His-tag) Mouse Protein

Product data:

Product Type: Recombinant Proteins

Description: Podocalyxin / PODXL (22-404, His-tag) mouse protein, 50 μg

Species: Mouse

Expression cDNA Clone

HNGNETSTSA IKSSTVQSHQ SATTSTEVTT GHPVASTLAS TQPSNPTPFT TSTQSPSMPT

or AA Sequence:

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 RFSLEHHHHH H

Tag: His-tag

Predicted MW: 41.0 kDa

Concentration: lot specific

Purity: >95% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Endotoxin: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Preparation: Liquid purified protein

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 038751

Locus ID: 27205

 UniProt ID:
 Q9R0M4, Q791G4

Cytogenetics: 6 12.57 cM

Synonyms: AW121214; Ly102; PC; PCLP-1; Pclp1; Podxl1

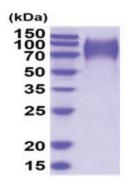




Summary:

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.[UniProtKB/Swiss-Prot Function]

Product images:



15% SDS-PAGE (3ug)