

Recombinant mouse Podocalyxin protein

Catalog Number: ATGP3311

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-404aa

UniProt No.

Q9R0M4

NCBI Accession No.

NP_038751

Alternative Names

Podocalyxin, AW121214, Ly102, PC, PCLP-1, Pclp1

PRODUCT SPECIFICATION

Molecular Weight

41kDa (391aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PODXL, also known as Podocalyxin, is a heavily glycosylated transmembrane sialoprotein in the CD34 and endoglycan family. This protein involved in the regulation of both adhesion and cell morphology and cancer progression. It has to function as an anti-adhesive molecule that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion. Also, it acts as a pro-adhesive molecule,

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enhancing the adherence of cells to immobilized ligands, increasing the rate of migration and cell-cell contacts in an integrin-dependent manner. Recombinant mouse PODXL, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

HNGNETSTSA IKSSTVQSHQ SATTSTEVTT GHPVASTLAS TQPSNTPPFT TSTQSPSMPT STPNPTSNOQS GGNLTSSVSE
VDKTKTSSPS STAFTSSSGQ TASSGGKSGD SFTTAPTTTL GLINVSSQPT DLNTTSKLLS TPTTDNTTSP QQPVDSSPST
ASHPVGQHTP AAVPSSSGST PSTDNSTLTW KPTTHKPLGT SEATQPLTSQ TPGITTLVPS TLQQSMASV GTTTEEFTHL
ISNGTPVAPP GPSTPSPIWA FGNYQLNCEP PIRPDEELLI LNLTRASLCE RSPLDEKEKL VELLCHSVKA SFKPAEDLCT
LHVAPILDNQ AVAVKRIIE TKLSPKAVYE LLKDRWDDL T EAGVSDMKLG KEGPPEVNE D RFSLEHHHHH H

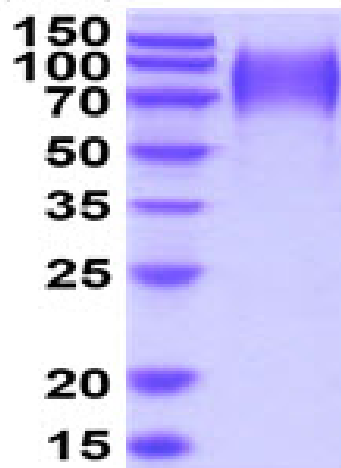
General References

Vitureira N., et al. (2010) PLoS ONE 8:e12003.
Nielsen JS., et al. (2007) PLoS ONE 2:E237.

DATA

SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)