

Recombinant human Podocalyxin protein

Catalog Number: ATGP4090

PRODUCT INFORMATION

Expression system

HEK293

Domain

23-429aa

UniProt No.

O00592

NCBI Accession No.

NP_005388.2

Alternative Names

PODXL, Podocalyxin, Podocalyxin isoform 2, GCTM, GCTM-2 antigen, Gp200, Podocalyxin-like protein 1, PCLP, PCLP1, PCLP-1, PCpodocalyxin, podocalyxin-like, PDX, gp135, PC, PODXL1

PRODUCT SPECIFICATION

Molecular Weight

43.1kDa (416aa)

Concentration

1 mg/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

Podocalyxin, also known as PODXL, is a member of the CD34 sialomucin protein family. It is present in glomerular podocytes, endothelial cells, glandular cells in fallopian tube, uterus. A soluble form of Podocalyxin can be released into the urine of women with pre-eclampsia. It has been shown to interact with Sodium-

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hydrogen exchange regulatory cofactor 2. And Its interactions with L-Selectin and E-Selectin mediate the tethering of lymphocytes and metastatic tumor cells to the vascular endothelium. It is upregulated in a number of cancers and is frequently associated with poor prognosis. Based on patient survival data, high level of PODXL transcripts in tumor cells is associated with poor prognosis in renal cancer. Recombinant human Podocalyxin, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

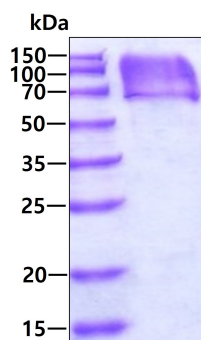
<DGS>SPSPSPS PSQNATQTTT DSSNKTAPTP ASSVTIMATD TAQQSTVPTS KANEILASVK ATTLGVSSDS PGTTTLAQQV SGPVNNTTVAR GGGSGNPSTT IESPKSTKSA DTTTVATSTA TAKPNTTSSQ NGAEDTTNSG GKSSHVSSTT LTSTKAEHLT TPHPTSPSPS RQPTSTHPVA TPTSSGHDHL MKISSSSSTV AIPGYTFTSP GMTTTLPSV ISQRTQQTSS QMPASSTAPS SQETVQPTSP ATALRTPTLP ETMSSSPTAA STTHRYPKTP SPTVAHESNW AKCEDLETQT QSEKQLVLNL TGNTLCAGGA SDEKLISLIC RAVKATFNPA QDKCGIRLAS VPGSQTVVVK EITIHTKLPA KDVYERLKDK WDELKEAGVS DMKLGDAQGP EEAEDRFSMP <HHHHHH>

General References

Nielsen, J.S. and K.M. McNagny (2009) J. Am. Soc. Nephrol. 20:1669-1676.
Nielsen JS, McNagny KM (2008). Journal of Cell Science. 121: 3683-3692.
Takeda T, et al. (2001). The Journal of Clinical Investigation. 108: 289-301.

DATA

SDS-PAGE



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