Recombinant human EphB4 protein

Catalog Number: ATGP3843

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
16-539aa

UniProt No.
P54760

NCBI Accession No.
NP_004435

Alternative Names
Ephrin type-B receptor 4, EPHB4, HFASD, HTK, MYK1, TYRO11, EPH receptor B4, Hepatoma transmembrane kinase, Tyrosine-protein kinase TYRO11

PRODUCT SPECIFICATION

Molecular Weight
58.1 kDa (532aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

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

Purity
> 90% 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
EPHB4, also known ephrin type-B receptor 4, is a member of the Eph receptor tyrosine kinase family. It binds transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. This protein plays a central role in heart morphogenesis and angiogenesis

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through regulation of cell adhesion and cell migration. And the signaling of this protein controls cellular repulsion and segregation form EFNB2-expressing cells. And it also plays a role in postnatal blood vessel remodeling, morphogenesis and permeability and is thus important in the context of tumor angiogenesis. Recombinant human EPHB4 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

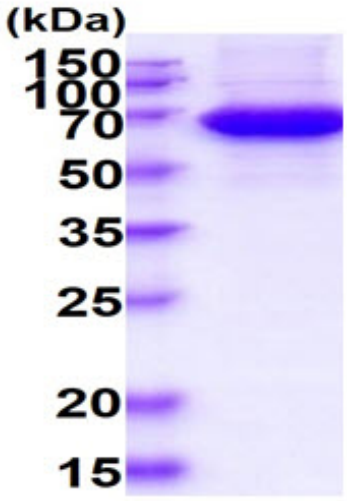
LEETLLNTKL ETADLKWVTF PQVDGQWEEL SGLDEEQHSV RTYEVCDVQR APGQAHWLRT GWVPRRGAVH VYATLRFTML ECLSLPRAGRSCKETFTVFY YESDADTATA LTPAWMENPY IKVDTVAAEH LTRKRPGAEA TGKVNVKTLR LGPLSKAGFY LAFQDQGACM ALLSLHLFYK KCAQLTVNLT RFPETVPREL VVPVAGSCVV DAVPAPGPSP SLYCREDGQW AEQPVTGCSC APGFEAAEGN TKCRACAQGT FKPLSGEGSC QPCPANSHSN TIGSAVCQCR VGYFRARTDP RGAPCTTPPS APRSVVSRLN GSSLHLEWSA PLESGGREDL TYALRCRECR PGGSCAPCGG DLTFDPGPRD LVEPWVVVRG LRPDFTYTFE VTALNGVSSL ATGPVPFEPV NVTTDREVPP AVSDIRVTRS SPSSLSLAWA VPRAPSGAVL DYEVKYHEKG AEGPSSVRFL KTSENRAELR GLKRGASYLV QVRARSEAGY GPFGQEHHSQ TQLDESEGWR EQLAVEHHHH HH

General References

Liu T., et al, (2017) Cell Physiol Biochem. 41:819-834.
Kadife E., et al, (2018) Acta Oncol. 25:1-14.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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