

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 from 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

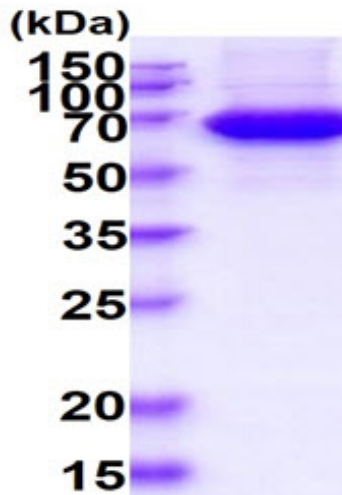
LEETLLNTKL ETADLKWVTF PQVDGQWEEL SGLDEEQHSV RTYEVCVQQR APGQAHWLRT GWVPRRGAVH VYATLRFTML
ECLSLPRAGRSCKETFTVYF YESDADTATA LTPAWMENPY IKVDTVAAEH LTRKRPGAEA TGKVNKTLR LGPLSKAGFY
LAFQDQGACM ALLSLHLFYK KCAQLTVNLT RFPETVPREL VVPVAGSCV DAVPAPGSP SLYCREDGQW AEQPVTGCSC
APGFEEAEGN TKCRACAQGT FKPLSGEGSC QPCPANSHSN TIGSAVCQCR VGYFRARTDP RGAPCTTPPS APRSVVSRNLN
GSSLHLEWSA PLESGGREDL TYALRCRECR PGGSCAPCGG DLTFDPGPRD LVEPWVVVRG LRPDFTYTFE VTALNGVSSL
ATGPVPFEPV NVTTDREVPP AVSDIRVTRS SPSSLSLAWA VPRAPSGAVL DYEVKYHEKG AEGPSSVRFL KTSENRAELR
GLKRGASYLV QVRARSEAGY GPFQGEHHSQ 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



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

15% SDS-PAGE (3ug)