# Recombinant mouse EphB4 protein

Catalog Number: ATGP3415

## PRODUCT INFORMATION

**Expression system**
Baculovirus

**Domain**
16-539aa

**UniProt No.**
P54761

**NCBI Accession No.**
NP_034274

**Alternative Names**
EPH receptor B4, Ephrin type-B receptor 4, Developmental kinase 2, mDK-2, Hepatoma transmembrane kinase, Tyrosine kinase MYK-1, Htk, Mdk2, Tyro11

## PRODUCT SPECIFICATION

**Molecular Weight**
58.7 kDa (532aa)

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

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

**Purity**
> 85% 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 as ephrin type-B receptor 4 isoform b, is a member of the Eph receptor tyrosine kinase family shown to act in neuronal guidance and mediate venal/arterial separation. Ephb4 provides survival advantage to squamous cell carcinoma of the head and neck. It has tumor suppressor activities and that regulation of cell

proliferation, extracellular matrix remodeling, and invasive potential are important mechanisms of tumor suppression. Recombinant mouse Ephb4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

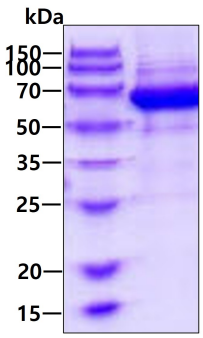
LEETLLNTKL ETADLKWVTY PQAEGQWEEL SGLDEEQHSV RTYEVCDMKR PGGQAHWLRT GWVPRRGAVH VYATIRFTMM ECLSLPRASR SCKETFTVFY YESEADTATA HTPAWMENPY IKVDTVAAEH LTRKRPGAEA TGKVNIKTLR LGPLSKAGFY LAFQDQGACM ALLSLHLFYK KCSWLITNLT YFPETVPREL VVPVAGSCVA NAVPTANPSP SLYCREDGQW AEQQVTGCSC APGYEAAESN KVCRACGQGT FKPQIGDESC LPCPANSHSN NIGSPVCLCR IGYYRARSDP RSSPCTTPPS APRSVVHHLN GSTLRLEWSA PLESGGREDL TYAVRCRECR PGGSCLPCGG DMTFDPGPRD LVEPWVAIRG LRPDVTYTFE VAALNGVSTL ATGPPPFEPV NVTTDREVPP AVSDIRVTRS SPSSLILSWA IPRAPSGAVL DYEVKYHEKG AEGPSSVRFL KTSENRAELR GLKRGASYLV QVRARSEAGY GPFGQEHHSQ TQLDESESWR EQLA<VEHHHH HH>

### General References

Xiao Z. et al., (2012) Cancer Biol Ther. 13:630-637.
Masood R. et al., (2006) Int J Cancer. 119:1236-1248.
Dopeso H. et al., (2009) Cancer Res. 69:7430-7438.

## DATA

### SDS-PAGE




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