

EphB1 active protein

Recombinant human EphB1 protein

CATALOG # AAA48404	HOST HEK293	APPLICATIONS SDS-Page
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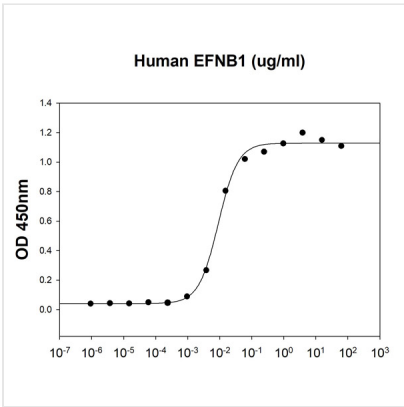
PRODUCT SYNONYMS

EphB1; Recombinant human EphB1 protein; EPHB-1; Ephrin type-B receptor 1; Eph Receptor B1; ELK; EPH tyrosine kinase 2; EPH-like kinase 6; EK6; hEK6; HEK6; Neuronally-expressed EPH-related tyrosine kinase; NET; NETHeK6; Tyrosine-protein kinase receptor EPH-2; EPHT2; soluble EPHB1 variant 1; EphB1 active protein

PRODUCT SPECIFICATIONS

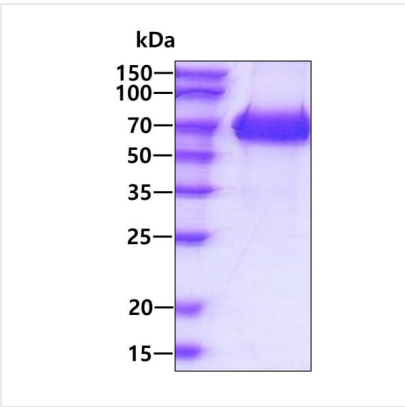
Host	HEK293
Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by absorbance at 280nm) (varies by lot)
Sequence Positions	18-540aa
Sequence	MEETLMDTRT ATAELGWTAN PASGWEEVSG YDENLNTIRT YQVCNVFEPN QNNWLLTTFI NRRGAHRIYT EMRFTVRDCS SLPNVP GSCK ETFNLYYYET DSVIATKKSA FWSEAPYLKV DTIAADESFS QVDFGGRLMK VNTEVRSFGP LTRNGFYLA F QDYGACMSLL SVRVFFKKCP SIVQNFAVFP ETMTGAESTS LVIARGTCIP NAEEDVPIK LYCNGDGEWM VPIGRCTCKP GYEPENSVAC KACPAGTFKA SQEAEGCSHC PSNSRSPAEA SPICTCRTGY YRADFDPEEV ACTSVPSGPR NVISIVNETS IILEWHPPRE TGGRDDVTYN IICKKCRADR RSCSRCDNV EFVPRQLGLT ECRVSISSLW AHTPYTFDIQ AINGVSSKSP FPPQHVSVNI TTNQAAPSTV PIMHQVSATM RSITLSWPQP EQPNGIILDY EIRYYEKEHN EFNSSMARSQ TNTARIDGLR PGMVYVVQVR ARTVAGYGKF SGKMCFTLT DDDYKSELRE QLP
Applicable Applications for EphB1 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Met18
Bioactivity	Measured by its binding ability in a functional ELISA with Human EFN1.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human EPHB1 is coated at 2 ug/ml (100 ul/well) can bind Human EFN1 (CAT# ATGP3800) in a Functional ELISA assay.



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for EphB1 active protein	EphB1 also known as Ephrin type-B receptor 1, is a member of the ephrin receptor subfamily of the protein-tyrosine kinase family which 16 known receptors. EphB1 has been shown to bind ephrin-B2, ephrin-B1, ephrin-A3, ephrin-A1, ephrin-A4, and ephrin-B3. It binds to tyrosine kinase phosphorylates syndecan-2 and that this phosphorylation event is crucial for syndecan-2 clustering and spine formation. Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. The ephrin/Eph families also appear to play a role in angiogenesis. Recombinant human EPHB1, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for EphB1 active protein	Angiogenesis; Cardiovascular; Proteins
References	Eph Nomenclature Committee. Cell 90:403-404. Pasquale, E.B. (1997) Curr. Opin. Cell Biol. 9:608-615. Adams RH, et al. (1999). Genes Dev. 13: 295-306.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758284
NCBI GeneID	2047
NCBI Accession #	NP_004432.1
NCBI GenBank Nucleotide #	NM_004441.4
UniProt Accession #	P54762; O43569; O95142; O95143; Q0VG87; A8K593
Molecular Weight	109,885 Da
NCBI Official Full Name	ephrin type-B receptor 1
NCBI Official Synonym Full Names	EPH receptor B1
NCBI Official Symbol	EPHB1
NCBI Official Synonym Symbols	ELK; NET; Hek6; EPHT2
NCBI Protein Information	ephrin type-B receptor 1; EK6; EPH-like kinase 6; eph tyrosine kinase 2; soluble EPHB1 variant 1; tyrosine-protein kinase receptor EPH-2; neuronally-expressed EPH-related tyrosine kinase
UniProt Protein Name	Ephrin type-B receptor 1
UniProt Gene Name	EPHB1
UniProt Synonym Gene Names	ELK; EPHT2; HEK6; NET; EK6; HEK6; NET

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/hek293-active-protein/ephb1/48404>