

EphB6 active protein

EphB6 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257843

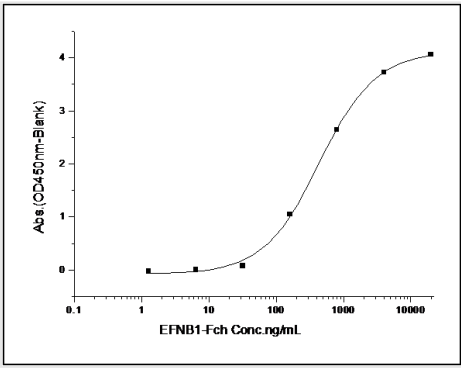
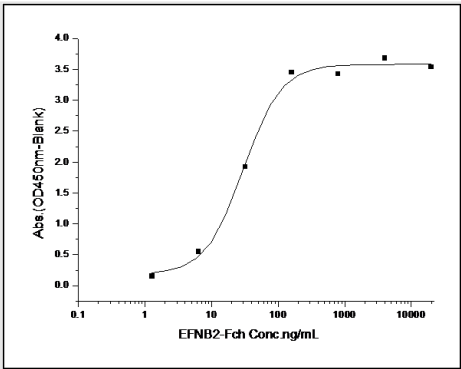
HOST
HEK293 Cells

PRODUCT SYNONYMS

EphB6; EphB6 Protein; Human; Recombinant (His Tag); Human EphB6/EphB6 Protein (His Tag); EPHB5 Protein; HEP Protein; EPH receptor B6; EphB6 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>92% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser57 9
Species	Human
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized recombinant human EphB6 at 10ug/ml (100uL/well) can bind human EphrinB1 with a linear range of 32-800 ng/ml. 3. Immobilized recombinant human EphB6 at 10ug/ml (100uL/well) can bind human EphrinB2 with a linear range of 1.28-32 ng/ml.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Leu 17
Tag	C-His
Protein Construction	The extracellular domain (Met 1-Ser 579) of human EphB6 (NP_004436.1) precursor was expressed, fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



Application Data
Measured by its binding ability in a functional ELISA. Immobilized recombinant human EphB6 at 10 ug/ml (100 ul/well) can bind human EphrinB2 with a linear range of 1.28-32 ng/ml.

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SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for EphB6 active protein	Background: Ephrins are divided into the ephrin-A (EFNA) class and the ephrin-B (EFNB) class based on their structures and sequence relationships. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. EphB6 is an unusual Eph receptor, lacking catalytic capacity due to alterations in its kinase domain. Interestingly, increased metastatic activity is associated with reduced EphB6 receptor expression in several tumor types, including breast cancer. This emphasizes the potential of EphB6 to act as a suppressor of cancer aggressiveness. EphB6 suppress cancer invasiveness through c-Cbl-dependent signaling, morphologic changes, and cell attachment and indicate that EphB6 may represent a useful prognostic marker and a promising target for therapeutic approaches. EphB6 can both positively and negatively regulate cell adhesion and migration, and suggest that tyrosine phosphorylation of the receptor by an Src family kinase acts as the molecular switch for the functional transition. In addition, Ephrin-B2 may be a physiological ligand for the EphB6 receptor.
Product Categories/Family for EphB6 active protein	Actin Dynamics Signaling Pathway
References	Munthe E, et al. (2000)Ephrin-B2 is a candidate ligand for the Eph receptor, EphB6. FEBS Lett. 466(1): 169-74.Matsuoka H, et al. (2005) Biphasic functions of the kinase-defective Ephb6 receptor in cell adhesion and migration. J Biol Chem. 280(32): 29355-63.Truitt L, et al. (2010) The EphB6 receptor cooperates with c-Cbl to regulate the behavior of breast cancer cells. Cancer Res. 70(3): 1141-53.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758292
NCBI GeneID	2051
NCBI Accession #	NP_004436.1
NCBI GenBank Nucleotide #	NM_004445.2
Molecular Weight	57,498 Da

NCBI Official Full Name	ephrin receptor EphB6
NCBI Official Synonym Full Names	EPH receptor B6
NCBI Official Symbol	EPHB6
NCBI Official Synonym Symbols	HEP
NCBI Protein Information	ephrin type-B receptor 6

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.

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Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/ephb6/257843>