

EPHB1 recombinant protein

Recombinant EPHB1 (565-984) protein

CATALOG # AAA60364	HOST Baculovirus
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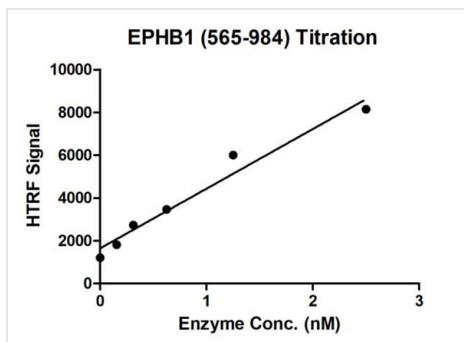
PRODUCT SYNONYMS

EPHB1; Recombinant EPHB1 (565-984) protein; Ephrin type-B receptor 1; EPHT2; HEK6; ELK; NET; EK6; Eph Tyrosine Kinase; EPHB1 recombinant protein

PRODUCT SPECIFICATIONS

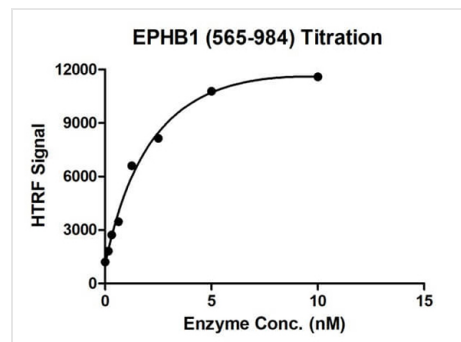
Host	Baculovirus
Form/Format	Recombinant EPHB1 (565-984) protein is supplied in 25 mM HEPESNaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant EPHB1 (565-984) protein that includes amino acids 565-984 of human EPHB1 protein (accession number NP_004432.1) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 48.78kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



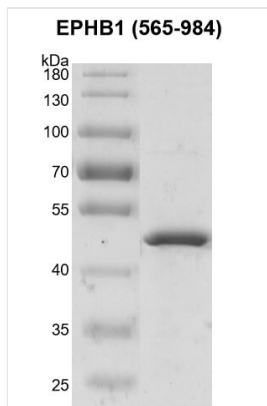
Application Data

HTRF assay for EPHB1 (565-984) activity 1uM TK substrate was incubated with different concentrations of EPHB1 (565-984) protein in 10ul reaction system containing 1×Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, 1 mM MnCl₂, 5 nM SEB and 100uM ATP for 1 hour. Then 10ul detection reagents containing anti-TK antibody (1:2) and SA-XL665 (1:100) diluted with 1× Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant EPHB1 (565-984) protein 10% SDS-PAGE Coomassie staining MW: 48.78kDa
Purity: >=95%

ADDITIONAL INFORMATION

Related Product Information for EPHB1 recombinant protein

EPHB1(Ephrin type-B receptor 1) is a receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Cognate/functional ephrin ligands for this receptor include EFNB1, EFNB2 and EFNB3. During nervous system development, regulates retinal axon guidance redirecting ipsilaterally ventrotemporal retinal ganglion cells axons at the optic chiasm midline. This probably requires repulsive interaction with EFNB2. In the adult nervous system together with EFNB3, regulates chemotaxis, proliferation and polarity of the hippocampus neural progenitors. In addition to its role in axon guidance also plays an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and synapse formation. May also regulate angiogenesis. More generally, may play a role in targeted cell migration and adhesion. Upon activation by EFNB1 and probably other ephrin-B ligands activates the MAPK/ERK and the JNK signaling cascades to regulate cell migration and adhesion respectively. Involved in the maintenance of the pool of satellite cells (muscle stem cells) by promoting their selfrenewal and reducing their activation and differentiation (By similarity).

Product Categories/Family for EPHB1 recombinant protein

Kinase; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight

48.78kDa

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://stage.aaabiotech.com/ephb1-recombinant-protein-baculovirus/60364>