

Active Recombinant Human EPHB1 Protein, His-tagged

Cat. No. EPHB1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EPHB1 (18-540aa), fused to His-tag at Cterminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	18-540 a.a.
Description	Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene is a receptor for ephrin-B family members.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human EFNB1.
Molecular Mass	59.2 kDa (529aa)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MEETLMDTRTATAELGWTANPASGWEEVSGYDENLNTIRTYQVCNVFEPNQNNWL LTTFINRRGAHRIYTEMRFTVRDCSSLPNVPGSCKETFNLYYYETDSVIATKKSAFWS EAPYLKVDITIAADESFSQVDFGGRLMKVNTEVRSFGPLTRNGFYLAQDYGACMSL LSVRVFFKKCPSIVQNFAVFPETMTGAESTSLVIARGTCIPNAEEVDVPIKLYCNGDG EWMVPIGRCTCKPGYEPENSVACKACPAGTFKASQEAEGCSHCPSNSRSPAEASPI CTCRTGYRADFDPPPEVACTSVPSGPRNVISIVNETSIILEWHPPRETGGRDDVTYNI ICKKCRADRRSCSRCDNVEFVPRQLGLTECRVSISSLWAHTPYTFDIQAINGVSSK SPFPQHVSVNITTNQAAPSTVPIMHQVSATMRSITLSWPQPEQPNGIILDYEIRYYE KEHNEFNSSMARSQTNTARIDGLRPGMVVYVQVRARTVAGYGKFSGKMCFTLTD DDYKSELREQLP
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by absorbance at 280nm)
Storage Buffer	In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
GENE INFORMATION	
Gene Name	EPHB1 EPH receptor B1 [Homo sapiens (human)]
Official Symbol	EPHB1
Synonyms	EPHB1; EPH receptor B1; ELK; NET; Hek6; EPHT2; ephrin type-B receptor 1; EK6;

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EPH-like kinase 6; eph tyrosine kinase 2; neuronally-expressed EPH-related tyrosine kinase; soluble EPHB1 variant 1; tyrosine-protein kinase receptor EPH-2; EC 2.7.10.1

Gene ID 2047

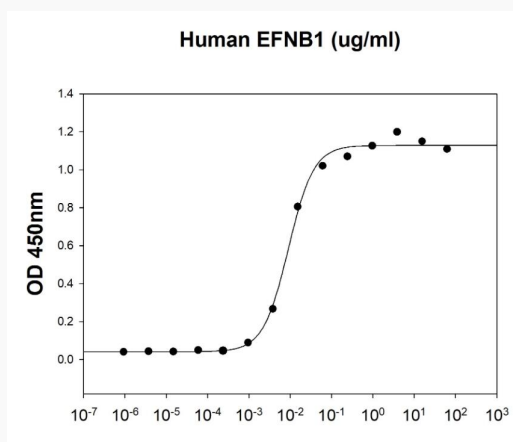
mRNA Refseq NM_004441

Protein Refseq NP_004432

MIM 600600

UniProt ID P54762

Biological Activity



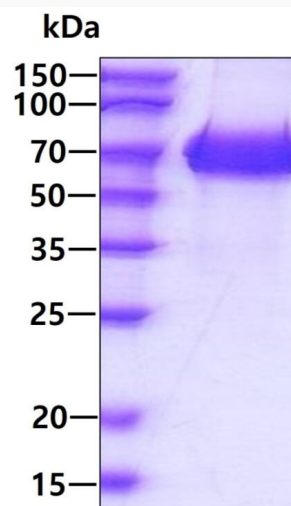
Human EPHB1 is coated at 2 µg/mL (100 µL/well) can bind Human EFNB1 in a Functional ELISA assay.

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SDS-PAGE



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

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