

Recombinant Human EPHB4 protein, His-tagged, Biotinylated

Cat. No. EPHB4-356H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Biotinylated Human EphB4 is expressed from human HEK293 cells. It contains AA Leu 16 - Ala 539 (Accession # NP_004435.3). It is the biotinylated form of Human EphB4 protein, His Tag.

Species Human

Source HEK293

ProteinLength Leu 16 - Ala 539

Description Ephrin type-B receptor 4(EPHB4) is also known as HTK, MYK1 and TYRO11, is a member of Eph family. 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 EPHB4 binds to Ephrin-B2 and plays an essential role in vascular development. EPHB4 and its ligand ephrin-B2 are specifically expressed on venous and arterial endothelial cells, respectively, and play an essential role in vascular development via bidirectional signals. The forward EPHB4 signaling inhibits cell adhesion, chemotaxis, angiogenesis and tumor growth. In contrast, the reverse Ephrin-B2 signaling exerts the opposite effect. It has been reported that aberrant expression of EPHB4 is associated with prostate cancer and highly malignant breast cancers, accordingly, EPHB4 has potential application as a therapeutic candidate.

 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

Predicted N Terminal	Leu 16
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 57.8 kDa. The protein migrates as 65-70 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>97% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Storage buffer	PBS, pH7.4
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	Powder,RT
Conjugation	Biotin

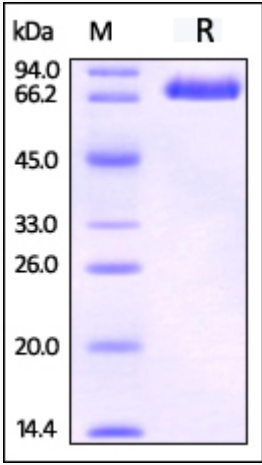
GENE INFORMATION

Gene Name	EPHB4 EPH receptor B4 [Homo sapiens (human)]
Official Symbol	EPHB4

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Synonyms	HTK; MYK1; HFASD; TYRO11; ephrin receptor EphB4; hepatoma transmembrane kinase; soluble EPHB4 variant 1; soluble EPHB4 variant 2; soluble EPHB4 variant 3; tyrosine-protein kinase TYRO11; tyrosine-protein kinase receptor HTK
Gene ID	2050
mRNA Refseq	NM_004444.4
Protein Refseq	NP_004435.3
UniProt ID	P54760
SDS-PAGE	 Biotinylated Human EphB4 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 97%.