Recombinant Human EPHB4, C13&N15-labeled

Cat. No. EPHB4-231H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EPHB4 MS Standard Protein, C13 and N15-labeled (EPHB4, Heavy Labeled) Glu 17 - Ala 539 (Accession # NP_004435.3) was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	17-539 a.a.
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. (1) 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. Incontrast, 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.

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Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Molecular Mass	EPHB4, Heavy Labeled, fused with 6×His tag at the C-terminus, has a calculated MW of 57.8 kDa. The predicted N-terminus is Glu 17. DTT-reduced Protein migrates as 65-70 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per μg of the EPHB4, Heavy Labeled by the LAL method.
Purity	>97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).

GENE INFORMATION

Gene Name	EPHB4 EPH receptor B4 [Homo sapiens]
Official Symbol	EPHB4
Synonyms	EPHB4; EPH receptor B4; EphB4 , HTK; ephrin type-B receptor 4; Tyro11; ephrin receptor EphB4; soluble EPHB4 variant 1; soluble EPHB4 variant 2; soluble EPHB4 variant 3; hepatoma transmembrane kinase; tyrosine-protein kinase TYRO11; tyrosine-protein kinase receptor HTK; HTK; MYK1; TYRO11;
Gene ID	2050
mRNA Refseq	NM_004444
Protein Refseq	NP_004435

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MIM	600011
UniProt ID	P54760
Chromosome Location	7q22
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; EPHB forward signaling, organism-specific biosystem; Ephrin B reverse signaling, organism-specific biosystem; EphrinB-EPHB pathway, organism-specific biosystem;
Function	ATP binding; ephrin receptor activity; ephrin receptor activity; nucleotide binding; protein binding; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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