Recombinant Human EPHB2, His-tagged

Cat. No. EPHB2-26441TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 569-1055 of Human Eph receptor B2 with N terminal His tag.
Species	Human
ProteinLength	569-1055 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.
Conjugation	HIS
Tissue specificity	Brain, heart, lung, kidney, placenta, pancreas, liver and skeletal muscle. Preferentially expressed in fetal brain.
Biological activity	Activity: 150 U/mg. One unit is defined as the amount of enzyme that willphosphorylate 1 pmol of tyrosine substrate per minute at pH 7.4 and 30C. Assay buffer: 50 mMHEPES, pH 7.4, 3 mM MgCl2, 3 mM MnCl2, 1 mM DTT, 3 uM Na-

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

	orthovanadate, 0.1 mM ATP,30 ug/m
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	F ERADSEYTDK LQHYTSGHMT PGMKIYIDPF TYEDPNEAVR EFAKEIDISC VKIEQVIGAG EFGEVCSGHL KLPGKREIFV AIKTLKSGYTEKQRRDFLSE ASIMGQFDHP NVIHLEGVVT KSTPVMIITE FMENGSLDSF LRQNDGQFTV IQLVGMLRGI AAGMKYLADM NYVHRDLAAR NILVNSNLVC KVSDFGLSRF LEDDTSDPTY TSALGGKIPI RWTAPEAIQY RKFTSASDVW SYGIVMWEVM SYGERPYWDM TNQDVINAIE QDYRLPPPMD CPSALHQLML DCWQKDRNHR PKFGQIVNTL DKMIRNPNSL KAMAPLSSGINLPLLDRTIP DYTSFNTVDE WLEAIKMGQY KESFANAGFT SFDVVSQMMM EDILRVGVTL AGHQKKILNS IQVMRAQMNQ IQSVEGQPLA RRPRATGRTK RCQPRDVTKK TCNSNDGKKK GMGKKKTDPG RGREIQGIFF KEDSHKESND CSCGG
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.Contains 2 fibronectin type-III domains.Contains 1 protein kinase domain.Contains 1 SAM (sterile alpha motif) domain.

GENE INFORMATION

Gene Name	EPHB2 EPH receptor B2 [Homo sapiens]
Official Symbol	EPHB2
Synonyms	EPHB2; EPH receptor B2; DRT, EphB2 , EPHT3, ERK; ephrin type-B receptor 2;

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	Hek5; Tyro5;
Gene ID	2048
mRNA Refseq	NM_004442
Protein Refseq	NP_004433
MIM	600997
Uniprot ID	P29323
Chromosome Location	1p36.1-p35
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; EPHB forward signaling, organism-specific biosystem;
Function	ATP binding; ephrin receptor activity; nucleotide binding; protein tyrosine kinase activity; receptor activity;

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