

Recombinant Human EPHB1, GST-tagged

Cat. No. EPHB1-12492H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EPHB1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	247-371a.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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	EPHB1 EPH receptor B1 [Homo sapiens]
Official Symbol	EPHB1
Synonyms	EPHB1; EPH receptor B1; EphB1 , EPHT2; ephrin type-B receptor 1; Hek6; EK6; EPH-like kinase 6; eph tyrosine kinase 2; soluble EPHB1 variant 1; tyrosine-protein kinase receptor EPH-2; neuronally-expressed EPH-related tyrosine kinase; ELK; NET; EPHT2; FLJ37986;
Gene ID	2047
mRNA Refseq	NM_004441
Protein Refseq	NP_004432
MIM	600600
UniProt ID	P54762
Chromosome Location	3q21-q23
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; axon guidance receptor activity; nucleotide binding; protein binding; receptor activity; transmembrane-ephrin receptor activity;

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