

Recombinant Human EPHB2, GST-tagged

Cat. No. EPHB2-12493H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EPHB2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	255-384a.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	EPHB2 EPH receptor B2 [Homo sapiens]
Official Symbol	EPHB2
Synonyms	EPHB2; EPH receptor B2; DRT, EphB2 , EPHT3, ERK; ephrin type-B receptor 2; Hek5; Tyro5; EPH-like kinase 5; eph tyrosine kinase 3; elk-related tyrosine kinase; protein-tyrosine kinase HEK5; tyrosine-protein kinase TYRO5; renal carcinoma antigen NY-REN-47; tyrosine-protein kinase receptor EPH-3; developmentally-regulated Eph-related tyrosine kinase; DRT; EK5; ERK; CAPB; PCBC; EPHT3; MGC87492;
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; Ephrin B reverse signaling, organism-specific biosystem; EphrinB-EPHB pathway, organism-specific biosystem;

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Function

ATP binding; ephrin receptor activity; nucleotide binding; protein tyrosine kinase activity; receptor activity; transmembrane-ephrin receptor activity; transmembrane-ephrin receptor activity;

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