

Recombinant Human EPHB3 Protein (A2-V998), GST tagged

Cat. No. EPHB3-0992H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GST-TEV-GG-EPHB3(A2-V998 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	A2-V998
Description	Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Generally has an overlapping and redundant function with EPHB2. Like EPHB2, functions in axon guidance during development regulating for instance the neurons forming the corpus callosum and the anterior commissure, 2 major interhemispheric connections between the temporal lobes of the cerebral cortex. In addition to its role in axon guidance plays also an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and the formation of excitatory synapses. Controls other aspects of development through regulation of cell migration and positioning. This includes angiogenesis, palate development and thymic epithelium development for instance. Forward and reverse signaling through the EFNB2/EPHB3 complex also regulate migration and adhesion of cells that tubularize the urethra and septate the cloaca. Finally, plays an important

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	role in intestinal epithelium differentiation segregating progenitor from differentiated cells in the crypt.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	EPHB3 EPH receptor B3 [Homo sapiens (human)]
Official Symbol	EPHB3
Synonyms	EPHB3; EPH receptor B3; EphB3, ETK2; ephrin type-B receptor 3; Hek2; Tyro6; EK2; EPH-like kinase 2; embryonic kinase 2; human embryo kinase 2; EPH-like tyrosine kinase 2; EPH-like tyrosine kinase-2; tyrosine-protein kinase TYRO6; ETK2; HEK2; TYRO6;
Gene ID	2049

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mRNA Refseq [NM_004443](#)

Protein Refseq [NP_004434](#)

MIM [601839](#)

UniProt ID [P54753](#)

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