Active Recombinant Human EPHB4 Protein, GST-tagged

Cat. No. EPHB4-3403H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human EPHB4 (NP_004435.3, 577 a.a. - 987 a.a.) partial recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells.
Species	Human
Source	Insect Cells
ProteinLength	577-987 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 binds to ephrin-B2 and plays an essential role in vascular development. [provided by RefSeq, Jul 2008]
Form	Liquid
Bio-activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by

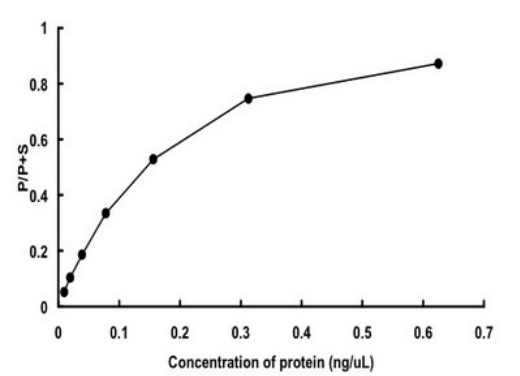
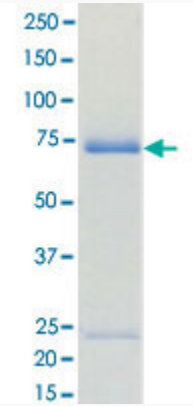
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	LabChip™3000. Substrate: Blk/Lyntide. ATP: 100 μM.
Molecular Mass	73 kDa
Purity	82 % by SDS-PAGE/CBB staining.
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)

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
Result of activity analysis	
Quality Control Testing	 Loading 1 μg protein in SDS-PAGE

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