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Datasheet for ABIN7319623

## EPH Receptor B1 Protein (EPHB1) (AA 564-984) (His tag)

### Overview

Quantity:	50 µg
Target:	EPH Receptor B1 (EPHB1)
Protein Characteristics:	AA 564-984
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EPH Receptor B1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human EphB1/EPHT2 Protein (aa 564-984, His Tag)(Active)
Sequence:	Ser564-Ala984
Characteristics:	Recombinant Human EphB1 is produced by our Mammalian expression system and the target gene encoding Ser564-Ala984 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human EphB1-His at 10µg/ml(100 µl/well) can bind Mouse EFNB2-Fc(Cat: PKSM041012). The ED50 of Human EphB1-His is 53.1 ug/ml .

## Target Details

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Target:	EPH Receptor B1 (EPHB1)
Alternative Name:	EphB1/EPHT2 ( <a href="#">EPHB1 Products</a> )
Background:	<p>Background: Ephrin Type-B Receptor 1 (EPHB1) is a single-pass type I membrane protein that belongs to the Ephrin-B family of receptor tyrosine kinases that is involved in embryonic nervous and vascular system development. EPHB1/EPHT2 contains two fibronectin type-III domains, one protein kinase domain and one SAM (sterile a motif) domain. EPHB1 could stimulate fibroblast motility on extracellular matrix in a kinase-dependent manner, which also correlated with its association with Grb7, an adaptor molecule implicated in the regulation of cell migration. It binds to ephrin-B1, ephrin-B2 and ephrin-B3. EPHB1 plays an important roles in diverse biological processes including nervous system development, angiogenesis, and neural synapsis formation and maturation and may be involved in cell-cell interactions in the nervous system.</p> <p>Synonym: Ephrin Type-B Receptor 1, ELK, EPH Tyrosine Kinase 2, EPH-Like Kinase 6, EK6, hEK6, Neuronally-Expressed EPH, Related Tyrosine Kinase, NET, Tyrosine-Protein Kinase Receptor EPH-2, EPHB1, ELK, EPHT2, HEK6</p>
Molecular Weight:	48.8 kDa
UniProt:	<a href="#">P54762</a>
Pathways:	<a href="#">RTK Signaling</a>

## Application Details

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Restrictions: For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris,150 mM NaCl, pH 8.0.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.