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## EPH Receptor B1 Protein (EPHB1) (AA 565-984) (GST tag, His tag)



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### 1 Image

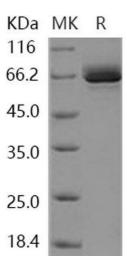
Overview	
Quantity:	50 μg
Target:	EPH Receptor B1 (EPHB1)
Protein Characteristics:	AA 565-984
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EPH Receptor B1 protein is labelled with GST tag, His tag.

#### **Product Details**

Purpose:	Recombinant Human EphB1/EPHT2 Protein (aa 565-984, His & GST Tag)(Active)
Sequence:	Arg565-Ala984
Characteristics:	A DNA sequence encoding the human EPHB1 (AAI11745.1) (Arg565-Ala984) was fused with the N-terminal polyhistidine-tagged GST tag at the N-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:	The specific activity was determined to be 140 nmol/min/mg using Poly(Glu:Tyr) 4:1 as substrate.

#### **Target Details**

Target:	EPH Receptor B1 (EPHB1)
Alternative Name:	EphB1/EPHT2 (EPHB1 Products)
Background:	Background: Ephrin type-B receptor 1, also known as EphB1, belongs to the ephrin receptor
	subfamily of the protein-tyrosine kinase family which 16 known receptors (14 found in
	mammals) are involved: EPHA1, EPHA2, EPHA3, EPHA4, EPHA5, EPHA6, EPHA7, EPHA8,
	EPHA9, EPHA10, EPHB1, EPHB2, EPHB3, EPHB4, EPHB5, EPHB6. EphB2 receptor tyrosine
	kinase phosphorylates syndecan-2 and that this phosphorylation event is crucial for syndecan-2
	clustering and spine formation. The Eph family of receptor tyrosine kinases (comprising EphA
	and EphB receptors) has been implicated in synapse formation and the regulation of synaptic
	function and plasticity6. Ephrin receptors are components of cell signalling pathways involved
	in animal growth and development, forming the largest sub-family of receptor tyrosine kinases
	(RTKs). Ligand-mediated activation of Ephs induce various important downstream effects and
	Eph receptors have been studied for their potential roles in the development of cancer. EphB
	receptor tyrosine kinases are enriched at synapses, suggesting that these receptors play a role
	in synapse formation or function. We find that EphrinB binding to EphB induces a direct
	interaction of EphB with NMDA-type glutamate receptors. This interaction occurs at the cell
	surface and is mediated by the extracellular regions of the two receptors, but does not require
	the kinase activity of EphB.
	Synonym: Ephrin Type-A Receptor 7, EPH Homology Kinase 3, EHK-3, EPH-Like Kinase 11,
	EK11, hEK11, EPHA7, EHK3, HEK11
Molecular Weight:	75.3 kDa
Pathways:	RTK Signaling
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Frozen, Liquid
Buffer:	Supplied as sterile 20 mM Tris, 500 mM NaCl, 3 mM DTT, pH 8.0, 10 % glycerol
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



#### **Western Blotting**

Image 1.