

Datasheet for ABIN7317768 EPH Receptor B2 Protein (EPHB2) (His tag)



Overview

Quantity:	100 µg
Target:	EPH Receptor B2 (EPHB2)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EPH Receptor B2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human EphB2 Protein (His Tag)(Active)
Sequence:	Met 1-Leu 543
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Leu 543) of human EphB2 (NP_059145.2) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind recombinant human EphrinB2 / Fc chimera in a functional ELISA.

Target Details

Target:	EPH Receptor B2 (EPHB2)
Alternative Name:	EphB2 (EPHB2 Products)

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Target Details	
Background:	Background: Ephrin type-B receptor 2, also known as EphB2, 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: CAPB,DRT,EK5,EPHT3,ERK,Hek5,PCBC,Tyro5
Molecular Weight:	59.7 kDa

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NCBI Accession:	NP_059145
Pathways:	RTK Signaling, Regulation of long-term Neuronal Synaptic Plasticity, S100 Proteins

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
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.

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