

[Go to Product page](#)

Datasheet for ABIN7195561

EPH Receptor B6 Protein (EPHB6)

Overview

Quantity:	100 µg
Target:	EPH Receptor B6 (EPHB6)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human EphB6 Protein (Active)
Sequence:	Met 1-Ser 579
Characteristics:	The mature form of human EphB6 (NP_004436.1) extracellular domain (Met 1-Ser 579) with quinary-aa peptide (DDDDK) at the C-terminus was expressed and purified.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human EphB6 at 10 µg/mL (100 µl/well) can bind biotinylated human EFNB2-Fch with a linear range of 1.56-50 ng/mL.

Target Details

Target:	EPH Receptor B6 (EPHB6)
Alternative Name:	EphB6 (EPHB6 Products)

Target Details

Background:	<p>Background: Ephrins are divided into the ephrin-A (EFNA) class and the ephrin-B (EFNB) class based on their structures and sequence relationships. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. EphB6 is an unusual Eph receptor, lacking catalytic capacity due to alterations in its kinase domain. Interestingly, increased metastatic activity is associated with reduced EphB6 receptor expression in several tumor types, including breast cancer. This emphasizes the potential of EphB6 to act as a suppressor of cancer aggressiveness. EphB6 suppress cancer invasiveness through c-Cbl-dependent signaling, morphologic changes, and cell attachment and indicate that EphB6 may represent a useful prognostic marker and a promising target for therapeutic approaches. EphB6 can both positively and negatively regulate cell adhesion and migration, and suggest that tyrosine phosphorylation of the receptor by an Src family kinase acts as the molecular switch for the functional transition. In addition, Ephrin-B2 may be a physiological ligand for the EphB6 receptor.</p> <p>Synonym: HEP</p>
Molecular Weight:	60.4 kDa
NCBI Accession:	NP_004436
Pathways:	RTK Signaling , Hormone Transport

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 100 mM NaCl, 50 mM Tris, pH 7.5
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.