Datasheet for ABIN7195560

EPH Receptor B6 Protein (EPHB6) (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	EPH Receptor B6 (EPHB6)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EPH Receptor B6 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human EphB6 Protein (His Tag)(Active)
Sequence:	Met 1-Ser 579
Characteristics:	The extracellular domain (Met 1-Ser 579) of human EphB6 (NP_004436.1) precursor was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA.2. Immobilized recombinant human EphB6 at 10 µg/ml (100 µl/well) can bind human EphrinB1 with a linear range of 32-800 ng/ml.3. Immobilized recombinant human EphB6 at 10 µg/ml (100 µl/well) can bind human EphrinB2 with a linear range of 1.28-32 ng/ml.

Target Details

Target:	EPH Receptor B6 (EPHB6)
Alternative Name:	EphB6 (EPHB6 Products)
Background:	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. Synonym: HEP
Molecular Weight:	61.6 kDa
NCBI Accession:	NP_004436
Pathways:	RTK Signaling, Hormone Transport

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.