

Product datasheet

Recombinant Human Ephrin B2 protein ab113609

1 Image

Description

Product name	Recombinant Human Ephrin B2 protein	
Purity	> 85 % SDS-PAGE. ab113609 was purified to > 85% by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.	
Expression system	Escherichia coli	
Accession	<u>P52799</u>	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MGSSHHHHHHSSGLVPRGSHMGSHMIVLEPIWVNSSNSK FLPGQGLVLYP QIGDKLDIICPKVDSKTVGQYEYKVMVDKDQADRCTIKK ENTPLLNCA KPDQDIKFTIKFQEFSPNLWGLEFQKNKDYIISTSNGLSLEG LDNQEGGV CQTRAMKILMKVGGDASSAGSTRNKDPTRRPELEAGTNG RSSTTSPFVKP NPGSSTDGNSAGHSGNNILGSEVALFA	
Predicted molecular weight	25 kDa including tags	
Amino acids	28 to 229	
Tags	His tag N-Terminus	

Specifications

Our **Abpromise guarantee** covers the use of **ab113609** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.03% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 1.17% Sodium chloride

General Info

Function

Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons. (Microbial infection) Acts as a receptor for Hendra virus and Nipah virus.

Tissue specificity

Lung and kidney.

Sequence similarities

Belongs to the ephrin family.

Contains 1 ephrin RBD (ephrin receptor-binding) domain.

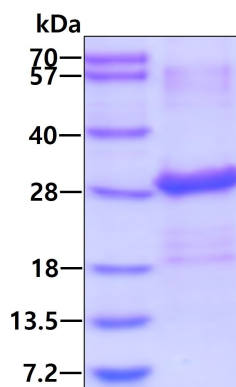
Post-translational modifications

Inducible phosphorylation of tyrosine residues in the cytoplasmic domain.

Cellular localization

Membrane.

Images



SDS-PAGE analysis of Recombinant Human Ephrin B2 protein (ab113609), under reducing conditions. Proteins visualized by coomassie blue stain.

Lane 1: Molecular Weight Standards

Lane 2: 3 µg Recombinant Human Ephrin B2 protein

SDS-PAGE - Recombinant Human Ephrin B2 protein (ab113609)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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