Datasheet for ABIN7195526

EPH Receptor A4 Protein (EPHA4) (Fc Tag)

Go to Product page

1 Image

Overview

Quantity:	200 µg
Target:	EPH Receptor A4 (EPHA4)
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EPH Receptor A4 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Rat EphA4 Protein (Fc Tag)(Active)
Sequence:	Met1-Tyr547
Characteristics:	A DNA sequence encoding the rat EPHA4 (D3ZZK3) (Met1-Tyr547) was expressed, fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 98 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized mouse EFNA5-His at 10 µ g/ml (100 µl/well) can bind Rat EPHA4-Fc, The EC50 of Rat EPHA4-Fc is 19.8-46.3 ng/ml.

Target Details

Target:	EPH Receptor A4 (EPHA4)

Target Details

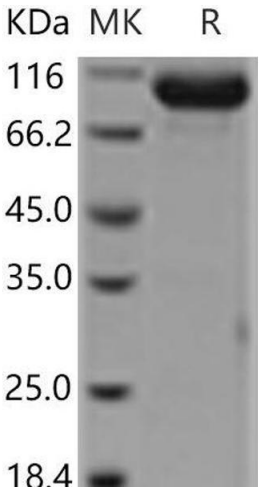
Alternative Name:	EphA4 (EPHA4 Products)
Background:	Background: EPH receptor A4 (ephrin type-A receptor 4), also known as EphA4, belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family which 16 known receptors (14 found in mammals) are involved: EPHA1, EPHA2, EPHA3, EPHA4, EPHA5, EPHA6, EPHA7, EPHA8, EPHA9, EPHA10, EPHB1, EPHB2, EPHB3, EPHB4, EPHB5, EPHB6. 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. EphA4 is enriched on dendritic spines of pyramidal neurons in the adult mouse hippocampus, and ephrin-A3 is localized on astrocytic processes that envelop spines. Eph receptor−mediated signaling, which is triggered by ephrins7, probably modifies the properties of synapses during synaptic activation and remodeling. Ephrin receptors are components of cell signalling pathways involved in animal growth and development, forming the largest sub-family of receptor tyrosine kinases (RTKs). The extracellular domain of an EphA4 interacts with ephrin ligands, which may be tethered to neighbouring cells. 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. Synonym: EPHA4
Molecular Weight:	85.3 kDa
UniProt:	D3ZZK3
Pathways:	RTK Signaling

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.



Western Blotting
Image 1.

