Datasheet for ABIN7195538

EPH Receptor A7 Protein (EPHA7) (His tag)

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1 Image

Overview

Quantity:	200 µg
Target:	EPH Receptor A7 (EPHA7)
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EPH Receptor A7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat EphA7/EHK3 Protein (His Tag)(Active)
Sequence:	Met1-Ser539
Characteristics:	A DNA sequence encoding the rat EPHA7 (P54759)(Met1-Ser539) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	Immobilized rat EPHA7-His at 10 µg/ml (100 µl/well) can bind mouse EFNA4-Fc, The EC50 of mouse EFNA4-Fc is 10.0-23.4 ng/ml.

Target Details

Target:	EPH Receptor A7 (EPHA7)

Target Details

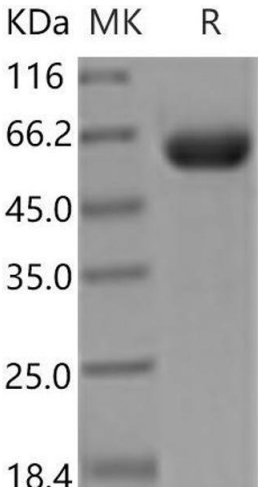
Alternative Name:	EphA7/EHK3 (EPHA7 Products)
Background:	Background: Ephrin type-A receptor 7, also known as EphA7, belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family which 16 known receptors (14 found in mammals) are involved: EPHA1, EPHA2, EPHA3, EPHA4, EPHA5, EPHA6, EPHA7, 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. 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). 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. Down-regulation of EphA7 secondary to hypermethylation has been reported in colorectal cancer. The expression of EphA7 was reduced in all tested gastric cancer cell lines, however, there is marked variability in expression among gastric carcinoma specimens. EphA7 may have roles in the pathogenesis and development of gastric carcinomas. Synonym: EPHA7,Ehk-3,Ehk3
Molecular Weight:	58.9 kDa
UniProt:	P54759
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.

