

Datasheet for ABIN7317580

**EPH Receptor A4 Protein (EPHA4) (His tag)**[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	EPH Receptor A4 (EPHA4)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EPH Receptor A4 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human EphA4 Protein (His Tag)(Active)
Sequence:	Met 1-Thr 547
Characteristics:	A DNA sequence encoding the human EPHA4 (NP_004429.1) extracellular domain (Met 1-Thr 547) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 96 % 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 ability to bind biotinylated Human EphrinA5-his in functional ELISA.

## Target Details

Target:	EPH Receptor A4 (EPHA4)
Alternative Name:	EphA4 ( <a href="#">EPHA4 Products</a> )

## Target Details

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Background:	<p>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 plasticity<sup>6</sup>. 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 ephrins<sup>7</sup>, 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.</p> <p>Synonym: Ephrin type-A receptor 4;HEK8; SEK; TYRO1;EPHA4;Tyrosine-protein kinase receptor SEK;Tyrosine-protein kinase TYRO1;EK8;hEK8;EPH-like kinase 8</p>
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Molecular Weight:	60 kDa
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NCBI Accession:	<a href="#">NP_031962</a>
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Pathways:	<a href="#">RTK Signaling</a>
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## Application Details

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Restrictions:	For Research Use only
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## Handling

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Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile PBS, pH 7.4
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Storage:	4 °C,-20 °C,-80 °C
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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.
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