

EphA6 active protein

EphA6 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258188

HOST
HEK293 Cells

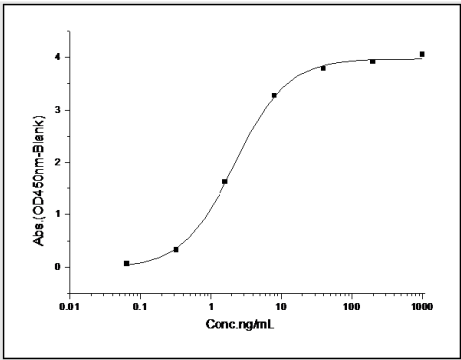
PRODUCT SYNONYMS

EphA6; EphA6 Protein; Mouse; Recombinant (His Tag); Mouse EphA6/EHK-2 Protein (His Tag); Ehk2 Protein; Hek12 Protein; m-ehk2 Protein; EPH receptor A6; EphA6 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Gln54 6
Species	Mouse
Activity	Measured by its binding ability in a functional ELISA. Immobilized recombinant mouse EphA6 at 2ug/ml (100uL/well) can bind recombinant human EphrinA3 at a linear range of 0.31-10ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser 28
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain of mouse EphA6 (NP_031964.2)(Met 1-Gln 546) was expressed, with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized recombinant mouse EphA6 at 2 ug/ml (100 ul/well) can bind recombinant human EphrinA3 at a linear range of 0.31-10 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for EphA6 active protein	Background: Ephrin type-A receptor 6, also known as EphA6 or EHK2, 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 induces various important downstream effects and Eph receptors have been studied for their potential roles in the development of cancer. In the vomeronasal system, Ephrin-A5/EphA6 interactions mediate attraction or adhesion rather than repulsion.
Product Categories/Family for EphA6 active protein	Actin Dynamics Signaling Pathway
References	Wilkinson DG. (2000) Eph receptors and ephrins: regulators of guidance and assembly. Int Rev Cytol. 196: 177-244.Yamaguchi Y, et al. (2004) Eph receptors in the adult brain. Curr Opin Neurobiol. 14 (3): 288-96.Hafner C, et al. (2004) Differential gene expression of Eph receptors and ephrins in benign human tissues and cancers. Clin Chem. 50 (3): 490-9.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The secreted recombinant mouse EphA6 comprises 530 amino acids and has a calculated molecular mass of 59.5kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 65kDa band in SDS-PAGE under reducing conditions.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/epha6/258188>