

## EphA6 recombinant protein

Recombinant Human EphA6 Protein (ECD, His Tag), HPLC-verified

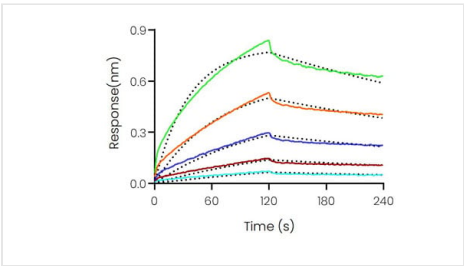
|                               |                             |                            |
|-------------------------------|-----------------------------|----------------------------|
| CATALOG #<br><b>AAA259324</b> | HOST<br><b>HEK293 Cells</b> | REACTIVITY<br><b>Human</b> |
|-------------------------------|-----------------------------|----------------------------|

### PRODUCT SYNONYMS

EphA6; Recombinant Human EphA6 Protein (ECD; His Tag); HPLC-verified; Human EphA6 Protein (ECD; EPH receptor A6; EHK-2 Protein; Human; EHK2 Protein; EK12 Protein; EPA6 Protein; EPHA6 Protein; FLJ35246 Protein; HEK12 Protein; PRO57066 Protein; EphA6 recombinant protein

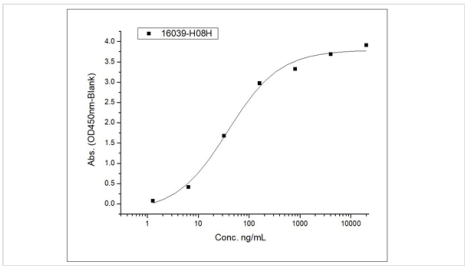
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity/Purification     | >= 90% as determined by SDS-PAGE. >= 90% as determined by SEC-HPLC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Form/Format             | Lyophilized from sterile PBS, 0.02% tween 80, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                                                                                                          |
| Sequence                | Trp23-Val5 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tag                     | C-His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Predicted N Terminal    | Trp 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Endotoxin               | < 1.0 EU perug protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein Construction    | A DNA sequence encoding the Human EphA6 (Q9UF33)(Trp23-Val550) was expressed with a polyhistidine tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Activity                | <ol style="list-style-type: none"> <li>1. Immobilized Recombinant Human FGF21 Protein at 2ug/mL (100uL/well) can bind Recombinant Human Ephrin-A3/EFNA3/EFL2 Protein (Fc Tag), the EC50 is 20-60ng/mL.</li> <li>2. Loaded Recombinant Human Ephrin A3 Protein, hFc Tag on proA Biosensor, can bind Recombinant Human EphA6 Protein, His Tag with an affinity constant of 43.1nM as determined in BLI assay (Sartorius Octet RED384)(Routinely tested).</li> </ol>                                                                                   |
| Preparation and Storage | <p>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.</p> <p>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 unless customers require otherwise.</p> |



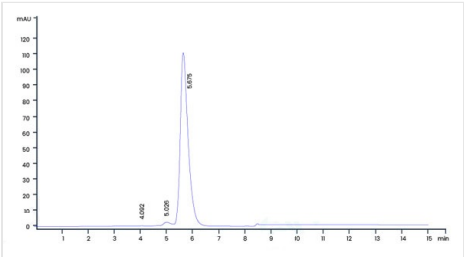
Application Data

Loaded Recombinant Human Ephrin A3 Protein, hFc Tag on proA Biosensor, can bind Recombinant Human EphA6 Protein, His Tag (Routinely tested).

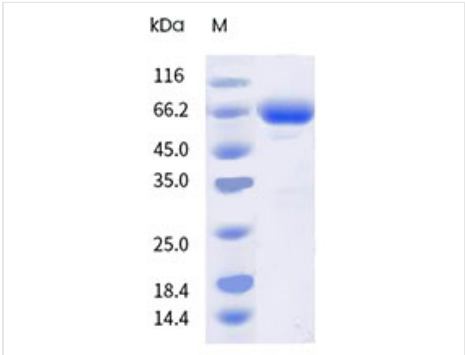


Application Data

Immobilized Recombinant Human FGF21 Protein (#AAA259324) at 2ug/mL (100uL/well) can bind Recombinant Human Ephrin-A3/EFNA3/EFL2 Protein (Fc Tag), the EC50is 20-60ng/mL.



Application Data



Application Data

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for EphA6 recombinant protein | 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 recombinant protein   | <a href="#">Actin Dynamics Signaling Pathway</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| References                                                | Wilkinso. DG. (2000. Ep. receptor. an. ephrins. regulator. o. guidanc. an. assembly. In. Re. Cytol. 196. 177-244.Yamaguch. Y. e. al. (2004. Ep. receptor. i. th. adul. brain. Cur. Opi. Neurobiol. 1. (3). 288-96.Hafne. C. e. al. (2004. Differentia. gen. expressio. o. Ep. receptor. an. ephrin. i. benig. huma. tissue. an. cancers. Cli. Chem. 5. (3). 490-9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|                           |                             |
|---------------------------|-----------------------------|
| NCBI GI #                 | <a href="#">27734955</a>    |
| NCBI GeneID               | <a href="#">285220</a>      |
| NCBI Accession #          | <a href="#">NP_775926.1</a> |
| NCBI GenBank Nucleotide # | <a href="#">NM_173655.3</a> |
| UniProt Accession #       | <a href="#">Q9UF33</a>      |
| Molecular Weight          | 116,116 Da                  |

|                                  |                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------|
| NCBI Official Full Name          | ephrin type-A receptor 6 isoform b                                                         |
| NCBI Official Synonym Full Names | EPH receptor A6                                                                            |
| NCBI Official Symbol             | EPHA6                                                                                      |
| NCBI Official Synonym Symbols    | EHK2; EK12; EPA6; EHK-2; HEK12; PRO57066                                                   |
| NCBI Protein Information         | ephrin type-A receptor 6; EPH-like kinase 12; EPH homology kinase 2; ephrin receptor EphA6 |
| UniProt Protein Name             | Ephrin type-A receptor 6                                                                   |
| UniProt Gene Name                | <b>EPHA6</b>                                                                               |
| UniProt Synonym Gene Names       | EHK2; HEK12; EHK-2; EK12                                                                   |
| UniProt Entry Name               | EPHA6_HUMAN                                                                                |

**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/epha6-recombinant-protein-hek293-cells/259324>