

**Catalog No.: RP00186** **Recombinant**

Species	Gene ID	Swiss Prot
Human	2042	P29320

**Tags**  
C-hFc&His

EK4:ETK:HEK:ETK1:HEK4:TYRO4:EPHA3

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
87.75 kDa	90.110 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

EphA3, also known as Cek4, Mek4, Hek, Tyro4, and Hek4, is a 135 kDa glycosylated member of the transmembrane Eph receptor tyrosine kinase family. EphA3 is expressed in the developing forebrain, retinal axons, some spinal cord motor neurons, and the heart where it plays an important role in axonal repulsion and organ morphogenesis. It is upregulated on some hematopoietic and solid tumor cells and on astrocytes surrounding injured nervous tissue. EphA3 ligation inhibits cellular adhesion to fibronectin as well as cellular migration. Transmembrane EphA3 associates in cis with ADAM10 which then promotes the cleavage in trans of Ephrin-A5. It also associates in cis with Ephrin-A5 on retinal axons, thereby preventing the activation of EphA3 by Ephrin-A.

Recombinant Human EphA3 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Gln541) of human EphA3 (Accession #NP\_005224.2) fused with an Fc, 6×His tag at the C-terminus.

Measured by its binding ability in a functional ELISA. Immobilized Human EFNA5 at 0.5µg/mL (100 µL/well) can bind Human EPHA3 with a linear range of 0.01-3.9 ng/mL.

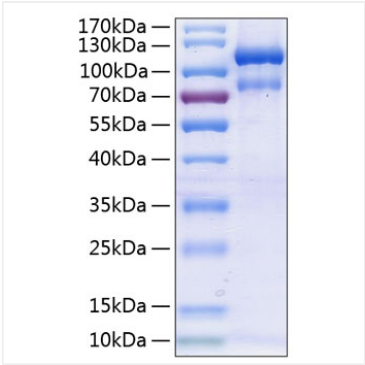
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

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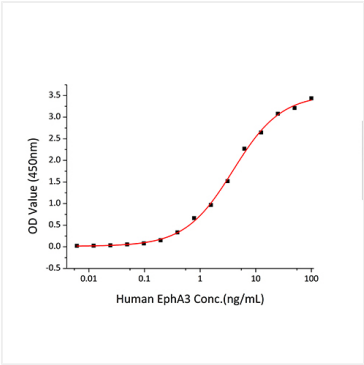
 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

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Validation Data



Recombinant Human EphA3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human EFNA5 at 0.5μg/mL (100 μL/well) can bind Human EPHA3 with a linear range of 0.01-3.9 ng/mL.