

Recombinant Mouse EphA2/ECK Protein

Catalog No.: RP01472

Sequence Information

Species **Gene ID**
Mouse 13836

Swiss Prot **Tags**
Q03145 C-His

Synonyms

Eck, Myk2, Sek2, Sek-2, AW545284, EphA2

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
57.39 kDa 65–70 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

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.

Background

Eph receptor A2 (Ephrin type-A receptor 2 or EphA2) is a member of the ephrin receptor subfamily of the protein-tyrosine kinase family. The receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Activated by the ligand ephrin-A1/EFNA1 regulates migration, integrin-mediated adhesion, proliferation and differentiation of cells. Regulates cell adhesion and differentiation through DSG1/desmoglein-1 and inhibition of the ERK1/ERK2 (MAPK3/MAPK1, respectively) signaling pathway. May also participate in UV radiation-induced apoptosis and have a ligand-independent stimulatory effect on chemotactic cell migration.

Basic Information

Description

Recombinant Mouse EphA2/ECK Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys26–Asn535) of mouse EphA2/Sek2 (Accession #NP_034269.2) fused with a 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse EphA2 (Catalog: RP01472) at 2 μg/mL (100 μL/well) can bind Human EFNA1 (Catalog: RP01425) with a linear range of 0.3–4.27 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

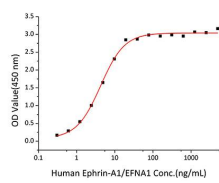
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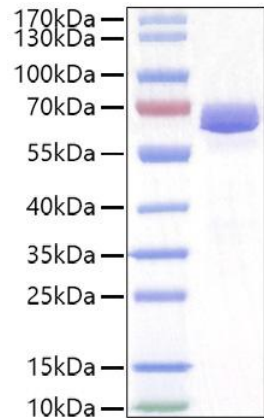
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Validation Data



Immobilized Mouse EphA2 Protein at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human EFNA1 with a linear range of 0.3 -4.27 ng/mL.



Recombinant Mouse EphA2/ECK Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.