Recombinant Human Ephrin-A1/EFNA1 Protein

Catalog No.: RP01419

Sequence Information

Species
Human

Gene ID
1942

Swiss Prot
P20827

Tags
C-His

Synonyms
B61, ECKLG, EFL1, EPLG1, LERK-1, LERK1, TNFAIP4,EFNA1,ECKLG, EFL1,EPLG1,LERK-1,LERK1, TNFAIP4,ephrin-A1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
20.20 kDa

Observed MW
26 kDa kDa

Endotoxin
< 0.1 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 stablizer (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-related receptor tyrosine kinase ligand 1 (abbreviated as Ephrin-A1) also known as ligand of eph-related kinase 1 or EFNA1, is a member of the ephrin (EPH) family. The Eph family receptor interacting proteins (ephrins) are a family of proteins that serve as the ligands of the Eph receptor, which compose the largest known subfamily of receptor protein-tyrosine kinases (RTKs). Ephrin-A1/EFNA1 and its Eph family of receptor tyrosine kinases are expressed by cells of the SVZ. Ephrin subclasses are further distinguished by their mode of attachment to the plasma membrane: ephrin-A ligands bind EphA receptors and are anchored to the plasma membrane via a glycosylphosphatidylinositol (GPI) linkage, whereas ephrin-B ligands bind EphB receptors and are anchored via a transmembrane domain. An exception is the EphA4 receptor, which binds both subclasses of ephrins. Ephrin-A1 and one of its receptor EphA2 were expressed in xenograft endothelial cells and also tumor cells and play a role in human cancers, at least in part by influencing tumor neovascularization.

Basic Information

Description
Recombinant Human Ephrin-A1/EFNA1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp19-Ser182) of human Ephrin-A1/EFNA1 (Accession #NP_004419.2) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human EFNA1 at 1 μg/mL (100 μL/well) can bind Human Ephrin A1 Rabbit mAb with a linear range of 0.098-2.066 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℃

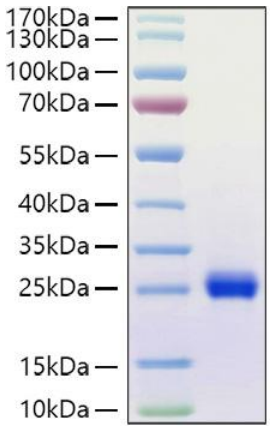
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

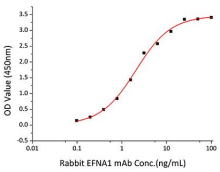
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Validation Data



Recombinant Human Ephrin-A1/EFNA1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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