

Ephrin-A1 Active Protein | EFNA1 active protein

Ephrin-A1 Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258178

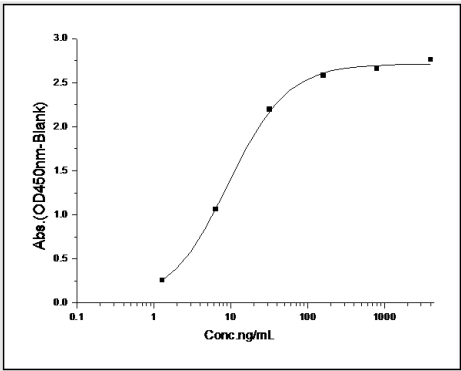
HOST
HEK293 Cells

PRODUCT SYNONYMS

Ephrin-A1; Ephrin-A1 Protein; Mouse; Recombinant (hFc Tag); Mouse Ephrin-A1/EFNA1 Protein (Fc Tag); AI325262 Protein; B61 Protein; Efl1 Protein; Epl1 Protein; Eplg1 Protein; Lerk1 Protein; ephrin-A1; EFNA1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>85% 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-Ser18 2
Species	Mouse
Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse EphA2 at 2ug/ml (100uL/well) can bind mouse EphrinA1 with a linear range of 0.16-20ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Asp 19
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse EFNA1 (NP_034237.3) without the pro peptide (Met 1-Ser 182) was fused with the Fc region of human IgG1 at the C-terminus.
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.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized Mouse EphA2 at 2 ug/ml (100 ul/well) can bind mouse EphrinA1 with a linear range of 0.16-20 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for EFNA1 active protein

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.

References

Deroanne C, et al. (2003) EphrinA1 inactivates integrin-mediated vascular smooth muscle cell spreading via the Rac/PAK pathway. J Cell Sci. 116(7): 1367-76. Ojima T, et al. (2006) EphrinA1 inhibits vascular endothelial growth factor-induced intracellular signaling and suppresses retinal neovascularization and blood-retinal barrier breakdown. Am J Pathol. 168(1): 331-9. Wu D, et al. (2004) Prognostic value of EphA2 and EphrinA-1 in squamous cell cervical carcinoma. Gynecol Oncol. 94(2): 312-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21489963
NCBI GeneID	171486
NCBI Accession #	NP_612182.1
NCBI GenBank Nucleotide #	NM_138309.3
Molecular Weight	22,813 Da
NCBI Official Full Name	CD99 antigen-like protein 2 isoform 2
NCBI Official Synonym Full Names	CD99 antigen-like 2
NCBI Official Symbol	Cd99l2
NCBI Official Synonym Symbols	Xap89; Mic2l1; AW548191
NCBI Protein Information	CD99 antigen-like protein 2

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.