

# Recombinant Rat Ephrin-A1(Efna1)

Catalog No: #AP70258

Package Size: #AP70258-1 20ug #AP70258-2 100ug #AP70258-3 1mg

## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Recombinant Rat Ephrin-A1(Efna1)                                                                                                                                                                                                                                                                                                                                                                |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen Description | Expression Region:18-182aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                             |
| Other Names           | EPH-related receptor tyrosine kinase ligand 1 ;LERK-1Immediate early response protein B61                                                                                                                                                                                                                                                                                                       |
| Accession No.         | P97553                                                                                                                                                                                                                                                                                                                                                                                          |
| Calculated MW         | 46.4 kDa                                                                                                                                                                                                                                                                                                                                                                                        |
| Tag Info              | N-terminal GST-tagged                                                                                                                                                                                                                                                                                                                                                                           |
| Target Sequence       | ADRHIVFWNSSNPKFREEDYTVHVQLNDYLDIICPHYEDDSVADAAMERYTLYMVEHQEYVTCEPQSKDQVR<br>WKCQNQPSAKHGPEKLSEKFQRFPTLGLKEFKEGHSYYYISKPIYHQETQCLKLKVTVNGKITHSPHAHANPQ<br>EKRLQADDPEVQVLHSIGHS                                                                                                                                                                                                                   |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                   |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

## Background

Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. Plays an important role in angiogenesis and tumor neovascularization. The recruitment of VAV2, VAV3 and PI3-kinase p85 subunit by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly. Exerts anti-oncogenic effects in tumor cells through activation and down-regulation of EPHA2. Activates EPHA2 by inducing tyrosine phosphorylation which leads to its internalization and degradation. Acts as a negative regulator in the tumorigenesis of gliomas by down-regulating EPHA2 and FAK. Can evoke collapse of embryonic neuronal growth cone and regulates dendritic spine morphogenesis.

## References

Molecular cloning and expression of rat and mouse B61 gene implications on organogenesis.Takahashi H., Ikeda T.Oncogene 11:879-883(1995)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.