

Ephrin-A1 Polyclonal Antibody

Catalog # AP69772

Specification

Ephrin-A1 Polyclonal Antibody - Product Information

Application WB
Primary Accession P20827

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

Ephrin-A1 Polyclonal Antibody - Additional Information

Gene ID 1942

Other Names

EFNA1; EPLG1; LERK1; TNFAIP4; Ephrin-A1; EPH-related receptor tyrosine kinase ligand 1; LERK-1; Immediate early response protein B61; Tumor necrosis factor alpha-induced protein 4; TNF alpha-induced protein 4

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Ephrin-A1 Polyclonal Antibody - Protein Information

Name EFNA1

Synonyms EPLG1, LERK1, TNFAIP4

Function

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.



Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor

Tissue Location

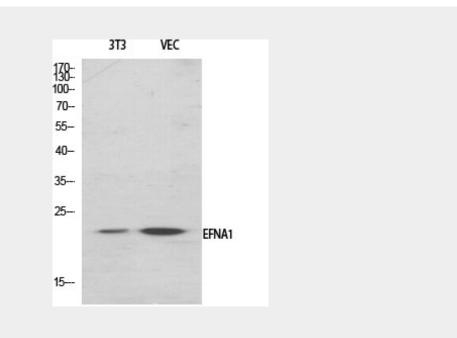
Brain. Down-regulated in primary glioma tissues compared to the normal tissues. The soluble monomeric form is expressed in the glioblastoma multiforme (GBM) and breast cancer cells (at protein level).

Ephrin-A1 Polyclonal Antibody - Protocols

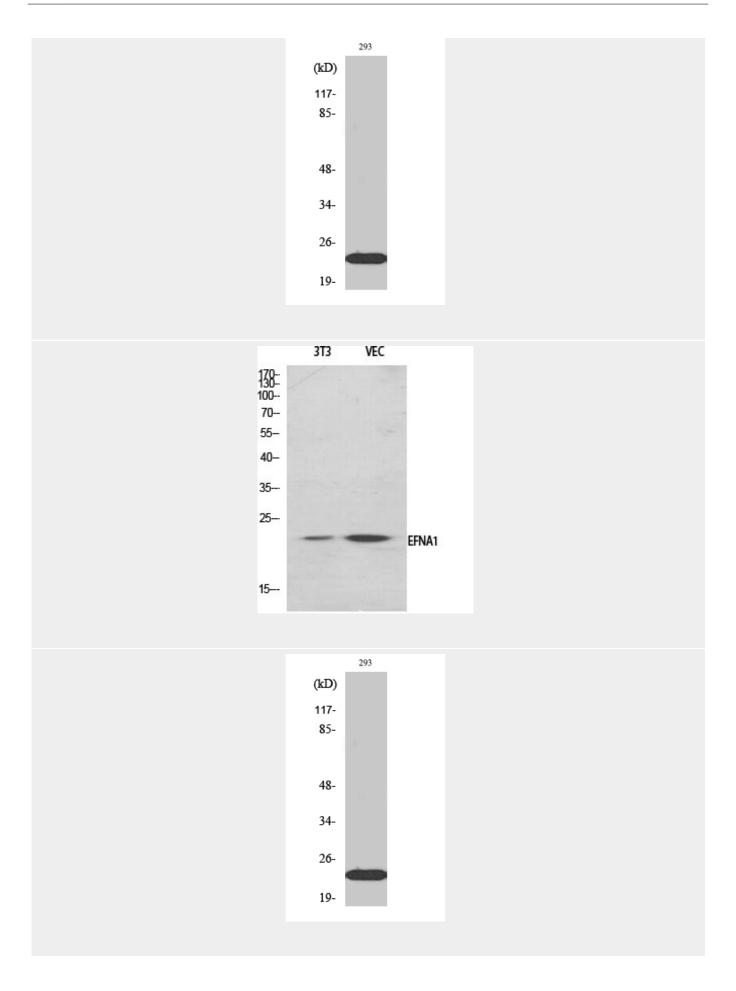
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

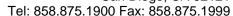
Ephrin-A1 Polyclonal Antibody - Images













Ephrin-A1 Polyclonal Antibody - Background

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