

EFNA1 / Ephrin A1 Antibody (aa66-115)

Rabbit Polyclonal Antibody Catalog # ALS15756

Specification

EFNA1 / Ephrin A1 Antibody (aa66-115) - Product Information

Application IHC, IF, WB Primary Accession P20827

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 24kDa KDa

EFNA1 / Ephrin A1 Antibody (aa66-115) - Additional Information

Gene ID 1942

Other Names

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, Ephrin-A1, secreted form, EFNA1, EPLG1, LERK1, TNFAIP4

Target/Specificity

EFNA1 Antibody detects endogenous levels of total EFNA1 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

EFNA1 / Ephrin A1 Antibody (aa66-115) is for research use only and not for use in diagnostic or therapeutic procedures.

EFNA1 / Ephrin A1 Antibody (aa66-115) - 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).

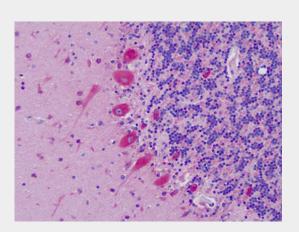
Volume 50 μl

EFNA1 / Ephrin A1 Antibody (aa66-115) - Protocols

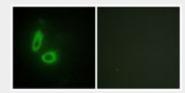
Provided below are standard protocols that you may find useful for product applications.

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

EFNA1 / Ephrin A1 Antibody (aa66-115) - Images

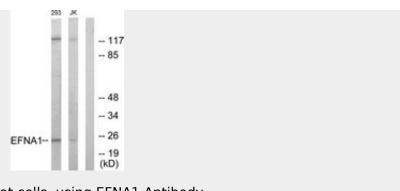


Human, Brain, Cerebellum: Formalin-Fixed Paraffin-Embedded (FFPE)



Immunofluorescence of HeLa cells, using EFNA1 Antibody.





Western blot of extracts from 293/Jurkat cells, using EFNA1 Antibody.

EFNA1 / Ephrin A1 Antibody (aa66-115) - 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.

EFNA1 / Ephrin A1 Antibody (aa66-115) - References

Holzman L.B.,et al.Mol. Cell. Biol. 10:5830-5838(1990). Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases. Gregory S.G.,et al.Nature 441:315-321(2006). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).