10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Ephrin A1 Antibody

Rabbit polyclonal antibody to Ephrin A1

Catalog # AP59541

Specification

Anti-Ephrin A1 Antibody - Product Information

Application	**WB**
Primary Accession	P20827
Other Accession	P52793
Reactivity	**Human, Mouse, Rat, Rabbit**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**23787**

Anti-Ephrin A1 Antibody - Additional Information

Gene ID 1942

Other Names
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

Target/Specificity
Recognizes endogenous levels of Ephrin A1 protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Ephrin A1 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

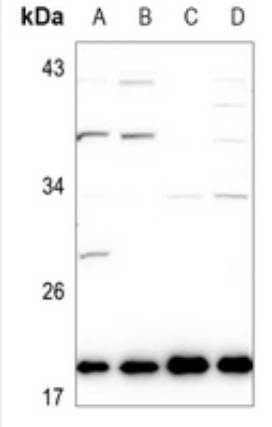
Tissue Location
Brain. Down-regulated in primary glioma tissues compared to the normal tissues. The soluble monomeric form is expressed in the glioblastoma multiforme (GBM) and breast cancer cells (at protein level).

Anti-Ephrin A1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Ephrin A1 Antibody - Images



Western blot analysis of Ephrin A1 expression in U87MG (A), MCF7 (B), CT26 (C), C6 (D) whole cell lysates.

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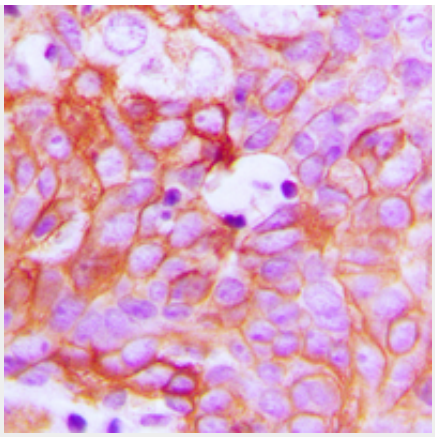

Immunohistochemical analysis of Ephrin A1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-Ephrin A1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Ephrin A1. The exact sequence is proprietary.