

**EFNA1 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3363a****Specification**

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**EFNA1 Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P20827</a>
Other Accession	<a href="#">NP_004419.2</a> , <a href="#">1942</a> , <a href="#">13636 (mouse)</a> , <a href="#">94268 (rat)</a>
Reactivity	Mouse, Rat
Predicted	Human, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	23787

**EFNA1 Antibody (internal region) - 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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

EFNA1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**EFNA1 Antibody (internal region) - 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).

### **EFNA1 Antibody (internal region) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **EFNA1 Antibody (internal region) - Images**



AF3363a (0.01 µg/ml) staining of Mouse Thymus lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **EFNA1 Antibody (internal region) - Background**

This antibody is expected to recognize isoform a (NP\_004419.2) only.

**EFNA1 Antibody (internal region) - References**

A potential tumor suppressor role for Hic1 in breast cancer through transcriptional repression of ephrin-A1. Zhang W, Zeng X, Briggs KJ, Beaty R, Simons B, Chiu Yen RW, Tyler MA, Tsai HC, Ye Y, Gesell GS, Herman JG, Baylin SB, Watkins DN, Oncogene 2010 Apr 29 (17): 2467-76. PMID: 20154726