

## Rabbit EFNA1 Polyclonal Antibody | anti-EFNA1 antibody

EFNA1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                            |
|-----------|--------|-------------------|-----------------------------------------|
| AAA287323 | Rabbit | Human, mouse, rat | Immunofluorescence, ELISA, Western Blot |

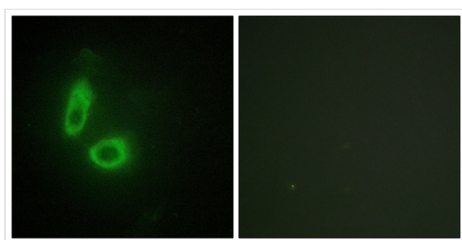
### PRODUCT SYNONYMS

EFNA1; Polyclonal Antibody; EFNA1 Antibody; 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; secreted form; EPLG1; LERK1; TNFAIP4; anti-EFNA1 antibody

### PRODUCT SPECIFICATIONS

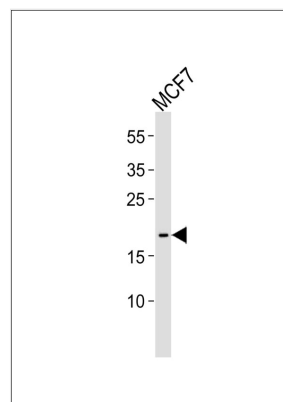
|                                                 |                                                                                                                                                        |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                 |
| Reactivity                                      | Human, mouse, rat                                                                                                                                      |
| Clonality                                       | Polyclonal                                                                                                                                             |
| Purity/Purification                             | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                              |
| Form/Format                                     | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                              |
| Sequence Positions                              | 83-115                                                                                                                                                 |
| Sequence Length                                 | 183                                                                                                                                                    |
| Applicable Applications for anti-EFNA1 antibody | IF (Immunofluorescence), ELISA, WB (Western Blot)                                                                                                      |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                      |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells, using EFNA1 antibody.



WB (Western Blot)

Western blot analysis of lysate from MCF7 cell line, using EFNA1 Antibody(AAA287323). AAA287323 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-EFNA1 antibody | 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. |
| Product Categories/Family for anti-EFNA1 antibody   | Cardiovascular; Neuroscience; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                          | Holzman L.B.,et al.Mol. Cell. Biol. 10:5830-5838(1990).<br>Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.<br>Gregory S.G.,et al.Nature 441:315-321(2006).<br>Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.<br>Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                            |
|----------------------------------|------------------------------------------------------------|
| NCBI GI #                        | 33359682                                                   |
| NCBI GeneID                      | 1942                                                       |
| NCBI Accession #                 | NP_004419.2                                                |
| NCBI GenBank Nucleotide #        | NM_004428.2                                                |
| UniProt Accession #              | P20827; Q5SR60; Q5SR61; Q6I9T9; Q8N578; D3DV86             |
| Molecular Weight                 | 23787                                                      |
| NCBI Official Full Name          | ephrin-A1 isoform a                                        |
| NCBI Official Synonym Full Names | ephrin-A1                                                  |
| NCBI Official Symbol             | EFNA1                                                      |
| NCBI Official Synonym Symbols    | B61; EFL1; ECKLG; EPLG1; LERK1; LERK-1; TNFAIP4            |
| NCBI Protein Information         | ephrin-A1                                                  |
| UniProt Protein Name             | Ephrin-A1                                                  |
| UniProt Gene Name                | EFNA1                                                      |
| UniProt Synonym Gene Names       | EPLG1; LERK1; TNFAIP4; LERK-1; TNF alpha-induced protein 4 |
| UniProt Entry Name               | EFNA1_HUMAN                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.