

Rabbit EFNA1 Polyclonal Antibody | anti-EFNA1 antibody

EFNA1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326987	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EFNA1; Polyclonal Antibody; EFNA1 Antibody; B61; ECKLG; EFL 1; EFL1; EFNA 1; Efna1; EFNA1_HUMAN; EPH related receptor tyrosine kinase ligand 1; EPH-related receptor tyrosine kinase ligand 1; Ephrin-A1; secreted form; EphrinA1; EPLG 1; EPLG1; Immediate early response protein B61; LERK 1; LERK-1; LERK1; Ligand of eph related kinase 1; OTTHUMP00000033242; OTTHUMP00000033271; TNF alpha-induced protein 4; TNFAIP 4; TNFAIP4; Tumor necrosis factor alpha induced protein 4; Tumor necrosis factor alpha-induced protein 4; anti-EFNA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EFNA1 antibody detects endogenous levels of total EFNA1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	205
Applicable Applications for anti-EFNA1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EFNA1
Subcellular Location	Secreted and Cell Membrane.
Tissue Specificity	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).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (91%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326987 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IF (Immunofluorescence)

AAA326987 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600 was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326987 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using EFNA1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EFNA1 antibody

Description: This gene encodes a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. This gene encodes an EFNA class ephrin which binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors. Two transcript variants that encode different isoforms were identified through sequence analysis.

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.

Subunit Structure: Monomer. Homodimer. Forms heterodimers with EPHA2. Binds to the receptor tyrosine kinases EPHA2, EPHA3, EPHA4, EPHA5, EPHA6 and EPHA7. Also binds with low affinity to EPHA1.

Post-translational Modifications: Undergoes proteolysis by a metalloprotease to give rise to a soluble monomeric form. N-glycosylation is required for binding to EPHA2 receptor and inducing its internalization.

Similarity: Belongs to the ephrin family.

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	Observed: 24 kDa Predicted: 24 kDa
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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/efna1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326987>