

Rabbit anti-Human, Rat EDG2 Polyclonal Antibody | anti-EDG2 antibody

EDG2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321975	Rabbit	Human, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EDG2; Polyclonal Antibody; EDG2 Antibody; 5031439C20; AI326300; EDG 2; Endothelial differentiation gene 2; Endothelial differentiation; lysophosphatidic acid G protein coupled receptor; 2; GPCR 26; Gpcr26; Gpcr91; GPR26; Kdt2; LPA 1; LPA receptor 1; LPA receptor EDG2; LPA-1; lpA1; Lpar1; LPAR1_HUMAN; Lysophosphatidic acid receptor 1; Lysophosphatidic acid receptor Edg-2; Lysophosphatidic acid receptor EDG2; MGC105279; MGC29102; Mrec1.3; rec.1.3; Ventricular zone gene 1; vzg-1; VZG1; anti-EDG2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EDG2 antibody detects endogenous levels of total EDG2
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	364
Applicable Applications for anti-EDG2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EDG2
Subcellular Location	Cell Surface. Cell Membrane. Prior to LPA treatment found predominantly at the cell surface but in the presence of LPA co-localizes with RALA in the endocytic vesicles.
Tissue Specificity	Expressed in many adult organs, including brain, heart, colon, small intestine, placenta, prostate, ovary, pancreas, testes, spleen, skeletal muscle, and kidney. Little or no expression in liver, lung, thymus, or peripheral blood leukocytes (PubMed:9070858). Detected in lung fibroblasts from bronchoalveolar fluid from patients with idiopathic pulmonary fibrosis (PubMed:18066075). Detected in bone marrow-derived mesenchymal stem cells (PubMed:19733258).
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (92%), Zebrafish (83%), Bovine (92%), Horse (92%), Sheep (92%), Rabbit (92%), Dog (92%), Chicken (92%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
AAA321975 at 1/100 staining Human lung 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 EDG2 expression in Jurkat cell extract



IF (Immunofluorescence)
AAA321975 staining PC-3 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.

ADDITIONAL INFORMATION

Related Product Information for anti-EDG2 antibody

Function: Receptor for lysophosphatidic acid (LPA) (PubMed:9070858, PubMed:19306925, PubMed:25025571, PubMed:26091040). Plays a role in the reorganization of the actin cytoskeleton, cell migration, differentiation and proliferation, and thereby contributes to the responses to tissue damage and infectious agents. Activates downstream signaling cascades via the G(i)/G(o), G(12)/G(13), and G(q) families of heteromeric G proteins. Signaling inhibits adenylyl cyclase activity and decreases cellular cAMP levels (PubMed:26091040). Signaling triggers an increase of cytoplasmic Ca2+ levels (PubMed:19656035, PubMed:19733258, PubMed:26091040). Activates RALA; this leads to the activation of phospholipase C (PLC) and the formation of inositol 1, 4, 5- trisphosphate (PubMed:19306925). Signaling mediates activation of down-stream MAP kinases (By similarity). Contributes to the regulation of cell shape. Promotes Rho-dependent reorganization of the actin cytoskeleton in neuronal cells and neurite retraction (PubMed:26091040). Promotes the activation of Rho and the formation of actin stress fibers (PubMed:26091040). Promotes formation of lamellipodia at the leading edge of migrating cells via activation of RAC1 (By similarity). Through its function as lysophosphatidic acid receptor, plays a role in chemotaxis and cell migration, including responses to injury and wounding (PubMed:18066075, PubMed:19656035, PubMed:19733258). Plays a role in triggering inflammation in response to bacterial lipopolysaccharide (LPS) via its interaction with CD14. Promotes cell proliferation in response to lysophosphatidic acid. Required for normal skeleton development. May play a role in osteoblast differentiation. Required for normal brain development. Required for normal proliferation, survival and maturation of newly formed neurons in the adult dentate gyrus. Plays a role in pain perception and in the initiation of neuropathic pain (By similarity).
Subunit Structure: Interacts with RALA and GRK2 (PubMed:19306925). Interacts with GNAQ and GNA13. Interacts with CD14; the interaction is enhanced by exposure to bacterial lipopolysaccharide (LPS) (By similarity).
Post-translational Modifications: N-glycosylated.
Similarity: Belongs to the G-protein coupled receptor 1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16950636
NCBI GeneID	1902
NCBI Accession #	NP_001392.2
NCBI GenBank Nucleotide #	NM_001401.4
UniProt Accession #	Q92633; O00656; O00722; P78351; B4DK36
Molecular Weight	Observed: 41 kDa Predicted: 42 kDa
NCBI Official Full Name	lysophosphatidic acid receptor 1

NCBI Official Synonym Full Names	lysophosphatidic acid receptor 1
NCBI Official Symbol	LPAR1
NCBI Official Synonym Symbols	EDG2; LPA1; VZG1; GPR26; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3
NCBI Protein Information	lysophosphatidic acid receptor 1
UniProt Protein Name	Lysophosphatidic acid receptor 1
UniProt Gene Name	LPAR1
UniProt Synonym Gene Names	EDG2; LPA1; LPA receptor 1; LPA-1

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/edg2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321975>