

Rabbit LPAR4 / GPR23 Polyclonal Antibody | anti-LPAR4 antibody

Rabbit Polyclonal to Human LPAR4 / GPR23

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50815	Rabbit	Human Predicted Reactivity: Monkey, Mouse, Rat, Bat, Hamster, Pig, Rabbit	Immunohistochemistry

PRODUCT SYNONYMS

LPAR4 / GPR23; Polyclonal Antibody; Rabbit Polyclonal to Human LPAR4 / GPR23; Anti-LPAR4 / GPR23 Antibody (C-Terminus) IHC-plus; LPAR4; G-protein coupled receptor 23; LPA-4; p2RY9; p2Y5-LIKE; p2Y purinoceptor 9; p2Y5-like receptor; p2Y9; G protein-coupled receptor 23; GPR23; LPA receptor 4; LPA4; Purinergic receptor 9; Human LPAR4; anti-LPAR4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Monkey, Mouse, Rat, Bat, Hamster, Pig, Rabbit
Clonality	Polyclonal
Specificity	Human LPAR4 / GPR23. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.1% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	370
Applicable Applications for anti-LPAR4 antibody	IHC (Immunohistochemistry)
Immunogen Type	Synthetic peptide
Immunogen Description	LPAR4 / GPR23 antibody was raised against synthetic 17 amino acid peptide from C-Terminus cytoplasmic domain of human LPAR4 / GPR23. Percent identity with other species by BLAST analysis: Human, Gorilla (100%); Gibbon, Marmoset, Mouse, Rat, Bat, Hamster, Rabbit, Pig (94%); Monkey, Bovine, Panda, Horse (88%); Dog, Elephant (82%).
Epitope	C-terminus
Usage	Immunohistochemistry: The unconjugated form was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for the unconjugated form was determined to be 5-10 ug/ml.
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Long term: -70°C; Short term: +4°C

ADDITIONAL INFORMATION

Related Product Information for anti-LPAR4 antibody	GPR23 has been identified as a Lysophospholipid/Lysosphingolipid Receptor.
Product Categories/Family for anti-LPAR4 antibody	Family: GPCR; Subfamily: Lysophospholipid/Lysosphingolipid

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885311
NCBI GeneID	2846
NCBI Accession #	NP_005287.1
NCBI GenBank Nucleotide #	NM_005296.2

UniProt Accession #	Q99677 ; O15132 ; Q502U9 ; Q6NSP5 ; B2RAC7
NCBI Official Full Name	lysophosphatidic acid receptor 4
NCBI Official Synonym Full Names	lysophosphatidic acid receptor 4
NCBI Official Symbol	LPAR4
NCBI Official Synonym Symbols	LPA4; P2Y9; GPR23; P2RY9; P2Y5-LIKE
NCBI Protein Information	lysophosphatidic acid receptor 4; LPA-4; LPA receptor 4; P2Y purinoceptor 9; P2Y5-like receptor; purinergic receptor 9; G protein-coupled receptor 23; G-protein coupled receptor 23
UniProt Protein Name	Lysophosphatidic acid receptor 4
UniProt Gene Name	LPAR4
UniProt Synonym Gene Names	GPR23; LPA4; P2RY9; LPA receptor 4; LPA-4; P2Y9
UniProt Entry Name	LPAR4_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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/lpar4-gpr23-antibody-immunohistochemistry-elisa/50815>