Rabbit Leukotriene B4 Receptor / BLT1 Polyclonal Antibody | anti-LTB4R antibody

Rabbit Polyclonal to Human Leukotriene B4 Receptor / BLT1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51624	**Rabbit**	**HumanPredicted Reactivity: Monkey, Mouse, Rat, Hamster, Rabbit**	**Immunohistochemistry**

PRODUCT SYNONYMS

Leukotriene B4 Receptor / BLT1; Polyclonal Antibody; Rabbit Polyclonal to Human Leukotriene B4 Receptor / BLT1; Anti-Leukotriene B4 Receptor / BLT1 Antibody (Cytoplasmic Domain) IHC-plus; BLT; BLTR; Blt-1; Chemokine receptor-like 1; G protein-coupled receptor 16; GPR16; Leukotriene B4 receptor; Leukotriene B4 receptor 1; G-protein coupled receptor 16; LTBR1; p2Y purinoceptor 7; p2Y7; LTB4-R 1; p2RY7; CMKRL1; LTB4-R1; LTB4R1; Human Leukotriene B4 Receptor; BLT1; anti-LTB4R antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Monkey, Mouse, Rat, Hamster, Rabbit
Clonality	Polyclonal
Specificity	Human Leukotriene B4 Receptor. 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	352
Applicable Applications for anti-LTB4R antibody	IHC (Immunohistochemistry)
Immunogen Species	Raised against human
Antigen Type	Synthetic peptide
Immunogen	Leukotriene B4 Receptor / BLT1 antibody was raised against synthetic 20 amino acid peptide from 1st cytoplasmic domain of human Leukotriene B4 Receptor. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Marmoset (100%); Rat, Rabbit (95%); Monkey, Mouse, Hamster (90%).
Epitope	Cytoplasmic Domain
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	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up one month. Avoid freeze/thaw cycles.

IMAGES

IHC (Immunohistochemistry)
Anti-Leukotriene B4 Receptor antibody IHC of human spleen, red pulp. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-LTB4R antibody	BLT1 is a Chemoattractant Receptor that binds the potent chemoattractant leukotriene B4 (LTB4) which is involved in defense against infection. Leukotriene B4 also activates the transcription factor PPAR alpha, resulting in the activation of genes that terminate inflammatory processes (Yokomizo et al., 1997). Although BLT1 shows homology to other P2Y receptors, it does not function as a purinoreceptor (Yokomizo et al., 1997).
Product Categories/Family for anti-LTB4R antibody	Family: GPCR; Subfamily: Chemoattractant

NCBI AND UNIPROT INFORMATION

NCBI GI #	221218998
NCBI GeneID	1241
NCBI Accession #	NP_001137391.1
NCBI GenBank Nucleotide #	NM_001143919.2
UniProt Accession #	Q15722; Q13305; Q53XV5; Q92641; Q9BSU5
NCBI Official Full Name	leukotriene B4 receptor 1
NCBI Official Synonym Full Names	leukotriene B4 receptor
NCBI Official Symbol	LTB4R
NCBI Official Synonym Symbols	BLT1; BLTR; P2Y7; GPR16; LTBR1; P2RY7; CMKRL1; LTB4R1
NCBI Protein Information	leukotriene B4 receptor 1; LTB4-R1; LTB4-R 1; P2Y purinoceptor 7; chemokine receptor-like 1; G protein-coupled receptor 16; G-protein coupled receptor 16; chemoattractant receptor-like 1; purinergic receptor P2Y, G-protein coupled, 7
UniProt Protein Name	Leukotriene B4 receptor 1
UniProt Gene Name	**LTB4R**
UniProt Synonym Gene Names	BLT; BLT1; BLTR; CMKRL1; GPR16; P2RY7; LTB4-R 1; LTB4-R1; P2Y7
UniProt Entry Name	LT4R1_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://stage.aaabiotech.com/polyclonal/leukotriene-b4-receptor-blt1-antibody-immunohistochemistry-elisa/51624