

Datasheet for ABIN1049000

anti-Leukotriene B4 Receptor/BLT antibody (Cytoplasmic Domain)[Go to Product page](#)**2** Images**1** Publication

Overview

Quantity:	50 µg
Target:	Leukotriene B4 Receptor/BLT (LTB4R)
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human, Mouse, Rat, Monkey, Rabbit, Hamster, Horse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from 3rd cytoplasmic domain of human Leukotriene B4 Receptor. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Horse, Rabbit (100%), Bovine (88%), Opossum, Platypus (81%). Type of Immunogen: Synthetic peptide
Specificity:	Human Leukotriene B4 Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Horse, Rabbit (100%) Bovine (88%) Opossum, Platypus (81%).

Product Details

Purification: Immunoaffinity purified

Target Details

Target: Leukotriene B4 Receptor/BLT (LTB4R)

Alternative Name: Leukotriene B4 Receptor / BLT1 ([LTB4R Products](#))

Background: Name/Gene ID: LTB4R

Subfamily: Chemoattractant

Family: GPCR

Synonyms: LTB4R, BLT, BLT1, 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

Gene ID: 1241

Application Details

Application Notes: Approved: IHC, IHC-Fr, IHC-P (5 - 10 µg/mL)

Comment: Target Species of Antibody: Human

Assay Procedure: **The IHC-pro Immunohistochemistry Protocol**

Tissue Preparation

Formalin fixation and embedding in paraffin wax

Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

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 at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: PBS, less than 0.1 % sodium azide.

Preservative: Sodium azide

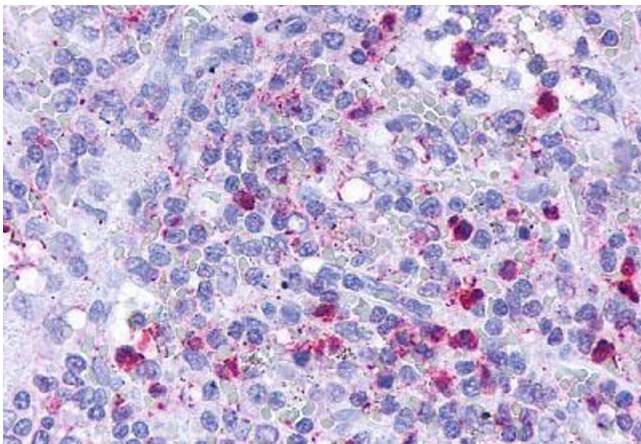
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Publications

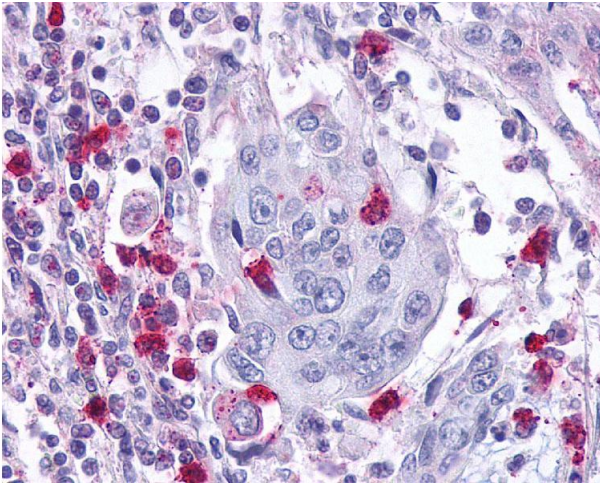
Product cited in: Bäck, Bu, Bränström, Sheikine, Yan, Hansson: "Leukotriene B4 signaling through NF-kappaB-dependent BLT1 receptors on vascular smooth muscle cells in atherosclerosis and intimal hyperplasia." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 102, Issue 48, pp. 17501-6, (2005) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Anti-Leukotriene B4 Receptor antibody ABIN1049000 IHC staining of human spleen, red pulp. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-Leukotriene B4 Receptor / BLT1 antibody IHC of human Pancreas, Carcinoma and Leukocytes. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.