Datasheet for ABIN7043308

anti-Leukotriene B4 Receptor/BLT antibody (Extracellular) (Atto 488)

1 Image

Go to Product page

Overview

Quantity:	50 µL
Target:	Leukotriene B4 Receptor/BLT (LTB4R)
Binding Specificity:	AA 168-181, Extracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Leukotriene B4 Receptor/BLT antibody is conjugated to Atto 488
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to BLT1 Conjugated to the Fluorescent Dye ATTO-488
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CFPRYPSEGHRAFH, corresponding to amino acid residues 168-181 of human LTB4R
Isotype:	IgG
Specificity:	2nd extracellular loop
Cross-Reactivity (Details):	Not recommended for use with rat and mouse samples.
Predicted Reactivity:	Monkey - identical
Characteristics:	Anti-Human BLT1 (extracellular) Antibody (ABIN7043307 and ABIN7044557) is a highly specific antibody directed against an extracellular epitope of the human Leukotriene B4 receptor 1. The

Product Details

	antibody can be used for western blot and indirect flow cytometry applications. It has been designed to recognize LTB4R from human samples only. \nAnti-Human BLT1 (extracellular)-ATTO Fluor-488 Antibody (ABIN7043308) is directly labeled with an fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The label is analogous to the well known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC. Anti-Human BLT1 (extracellular)-ATTO Fluor-488 Antibody is especially suited for experiments requiring simultaneous labeling of different markers.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	Leukotriene B4 Receptor/BLT (LTB4R)
Alternative Name:	LTB4R (LTB4R Products)
Background:	Leukotriene B4 receptor 1, LTB4R, LTB4R1, CMKRL1, GPR16, P2Y7, P2RY7,Leukotrienes (LTs) are lipid mediators prominently exerting proinflammatory responses. They are divided in two classes: cysteinyl LTs (cysLTs) which have a thioester linkage and LTB41. LTB4, a chemoattractant, plays a prominent role in the recruitment and activation of leukocytes2.LTB4 acts through two receptors which belong to the G-protein coupled receptor superfamily: BLT1 and BLT2. BLT1 displays high affinity for LTB4 and is highly expressed in leukocytes including granulocytes, macrophages, mast cells, dendritic cells and effector T cells3 and is expressed to much lower levels in the spleen, thymus, heart, skeletal muscle brain and liver2-4. BLT2 on the other hand is a low affinity receptor which does not display selectivity towards LTB45. Its expression is much more ubiquitous than that of BLT1. It is expressed in most human tissues, with the highest expression being in the spleen, liver, ovary, and leukocytes2,5-8. The two receptors could couple and activate different G-proteins, depending on the cell type and the cellular events activating the receptors2. However, activation of BLT1 usually correlates with increasing intracellular concentrations of Ca2+.The LTB4/BLT1 system is involved in many allergic reactions as well as asthma induced as an allergic response, where it plays a significant role in recruiting neutrophils and effector T cells into lungs as part of an inflammatory response induced by allergens1. Alternative names: BLT1, Leukotriene B4 receptor 1, LTB4R, LTB4R1, CMKRL1, GPR16, P2Y7, P2RY7
Gene ID:	1241

Target Details

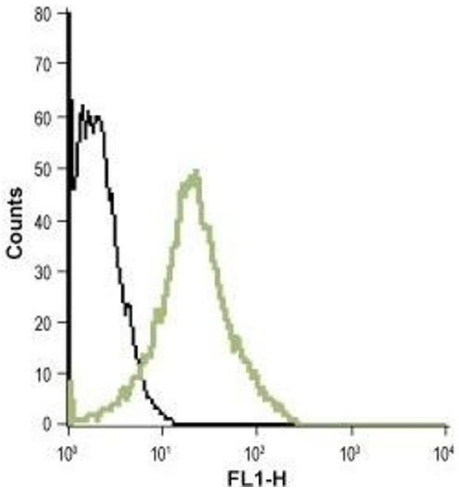
NCBI Accession:	NM_001143919
UniProt:	Q15722

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: N/A
Comment:	Negative Control: (ABIN7582041) Blocking Peptide:
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	50 µL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 1 % BSA with 0.05 % sodium azide
Preservative:	Sodium azide
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:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Flow Cytometry

Image 1. Cell surface detection of LTB4R in live intact human promyelocytic leukemia HL-60 cell line: (black line) Unstained HL-60 cells (green line) HL-60 cells + Anti-Human BLT1 (extracellular)- ATTO-488 Antibody (ABIN7043308), (1:20).