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PRODUCT INFORMATION



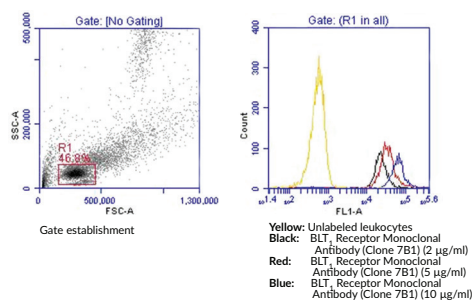
BLT₁ Receptor Monoclonal Antibody (Clone 7B1)

Item No. 120111

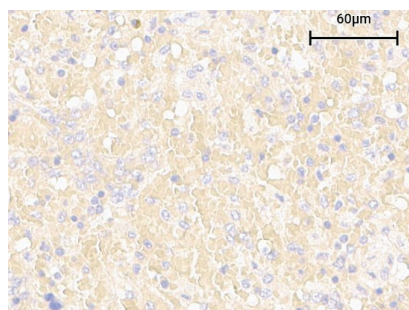
Overview and Properties

Contents:	This vial contains 200 µg of protein G-purified monoclonal antibody.
Synonyms:	BLTR ₁ , Leukotriene B ₄ Receptor 1, LTB ₄ Receptor 1
Immunogen:	HeLa cells transfected with human BLT ₁
Cross Reactivity:	(+) BLT ₁ , (-) BLT ₂ , CysLT ₁ , and CysLT ₂ receptors 1 ¹
Species Reactivity:	(+) Human
Uniprot No.:	Q15722
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥3 years
Storage Buffer:	PBS, pH 7.2, with 50% glycerol, 0.1% BSA, and 0.02% sodium azide
Clone:	7B1
Host:	Mouse
Isotype:	IgG2a
Applications:	Flow cytometry (FC), Immunofluorescence (IF), and Immunohistochemistry (IHC). BLT ₁ antagonism at 5 µg/ml with semi-purified receptor preparations; the recommended starting concentration is 5 µg/ml for FC and IHC; the recommended starting dilution is 5 µg/ml for IF. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically. Does not work for Western blotting.

Images



Whole human blood was fixed with 4% formaldehyde. Erythrocytes were lysed by the addition of 0.1% Triton-X. Cells were blocked with 3% normal goat serum then treated sequentially with primary (BLT₁ Receptor Monoclonal Antibody (Clone 7B1)) and secondary (goat anti-mouse FITC labeled) antibodies with 1 hour, room temperature incubations. The samples were analyzed using an Accuri flow cytometer using the FL1 detector. Color compensation: FL2 by FL1: 5.5.



Immunohistochemistry analysis of formalin-fixed, paraffin-embedded (FFPE) human spleen tissue after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with BLT₁ Monoclonal Antibody (Clone 7B1) (Item No. 120111) at a 1:80 dilution, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen (DAB).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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PRODUCT INFORMATION



Description

The human BLT₁ receptor is a G protein-coupled receptor that mediates the proinflammatory effects of leukotriene B₄ (LTB₄).² Northern blotting reveals that the BLT₁ receptor is highly expressed in leukocytes, U937 cells, and to a much lower extent in spleen and thymus.² Sheep lung membranes have also been identified as a rich source for receptor isolation and purification.³ A second, low-affinity LTB₄ receptor, BLT₂, has also been cloned and characterized.⁴⁻⁶ Cayman Chemical's BLT₁ Receptor Monoclonal Antibody is a useful tool for the detection of human BLT1 by flow cytometry, immunofluorescence, and immunohistochemistry. The antibody does not cross react with the other leukotriene receptors (BLT₂, CysLT₁, or CysLT₂) and does not work for Western blot analysis of BLT₁.

References

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4. Yokomizo, T., Kato, K., Terawaki, K., *et al.* A second leukotriene B₄ receptor, BLT2: A new therapeutic target in inflammation and immunological disorders. *J. Exp. Med.* **193(3)**, 421-431 (2000).
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6. Wang, S., Gustafson, E., Pang, L., *et al.* A novel hepatointestinal leukotriene B₄ receptor. *J. Biol. Chem.* **275(52)**, 40686-40694 (2000).

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