Datasheet: MCA2108F

Description:	MOUSE ANTI HUMAN BLTR:FITC
Specificity:	BLTR
Other names:	LEUKOTRIENE B4 RECEPTOR
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	202/7B1
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positiv controls.

Target Species

Human

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% 1% Sodium Azide Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	HeLa cell transfectants expressing human BLTR.
External Database Links	**UniProt:** Q15722 Related reagents **Entrez Gene:** 1241 LTB4R Related reagents
Synonyms	BLT, BLT1, BLTR, CMKRL1, GPR16, P2RY7
RRID	AB_323930
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	**Mouse anti Human BLTR antibody, clone 202/7B1** recognizes Human leukotriene B4 receptor, also known as BLTR, Chemoattractant receptor-like 1, G-protein coupled receptor 16 or P2Y purinoceptor 7. BLTR is a 353 ~40 kDa multipass transmembrane glycoprotein BLTR is expressed by peripheral blood granulocytes and is important in the pro-inflammatory response.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood.
References	1. Pettersson, A. *et al.* (2000) First-generation monoclonal antibodies identifying the human leukotriene B(4) receptor-1. Biochem Biophys Res Commun. 279 (2): 520-5. 2. Costa, M.F. *et al.* (2010) Leukotriene B4 mediates gammadelta T lymphocyte migration in response to diverse stimuli. J Leukoc Biol. 87: 323-32. 3. Islam, S.A. *et al.* (2006) The leukotriene B4 lipid chemoattractant receptor BLT1 defines antigen-primed T cells in humans. Blood. 107: 444-53. 4. Medoff, B.D. *et al.* (2005) BLT1-mediated T cell trafficking is critical for rejection and obliterative bronchiolitis after lung transplantation. J Exp Med. 202: 97-110. 5. Serezani, C.H. *et al.* (2009) FcgammaRI ligation leads to a complex with BLT1 in lipid rafts that enhances rat lung macrophage antimicrobial functions. Blood. 114: 3316-24. 6. Heller, E.A. *et al.* (2005) Inhibition of atherogenesis in BLT1-deficient mice reveals a role for LTB4 and BLT1 in smooth muscle cell recruitment. Circulation. 112: 578-86. 7. Thomas, S.Y. *et al.* (2007) Multiple chemokine receptors, including CCR6 and CXCR3, regulate antigen-induced T cell homing to the human asthmatic airway. J Immunol. 179:

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8. Sabirsh, A. *et al.* (2005) Fluorescent leukotriene B4: potential applications. J Lipid Res. 46: 1339-46.
9. Loell, I. *et al.* (2012) Activated LTB4 pathway in muscle tissue of patients with polymyositis or dermatomyositis. Ann Rheum Dis. 72: 293-9.
10. Wang, L. *et al.* (2012) BLT1-Dependent Alveolar Recruitment of CD4+CD25+ Foxp3+ Regulatory T Cells is Important for Resolution of Acute Lung Injury. Am J Respir Crit Care Med.186: 989-98.
11. Laarman, A.J. *et al.* (2012) *Staphylococcus aureus* Staphopain A inhibits CXCR2-dependent neutrophil activation and chemotaxis. EMBO J. 31: 3607-19.
12. Dixit, N. *et al.* (2014) Leukotriene B4 activates intracellular calcium and augments human osteoclastogenesis. Arthritis Res Ther. 16: 496.
13. Sezin, T. *et al.* (2019) Dual inhibition of complement factor 5 and leukotriene B4 synergistically suppresses murine pemphigoid disease. JCI Insight. 4 (15)Aug 08 [Epub ahead of print].

Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:FITC (MCA929F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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