

Datasheet: MCA2108A647

Description:	MOUSE ANTI HUMAN BLTR:Alexa Fluor® 647
Specificity:	BLTR
Other names:	LEUKOTRIENE B4 RECEPTOR
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	202/7B1
Isotype:	IgG2a
Quantity:	100 TESTS/1ml

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	▪			1/5 - 1/10

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/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to Alexa Fluor® 647- liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen	HeLa cell transfectants expressing human BLTR.
External Database Links	<p>UniProt: Q15722 Related reagents</p> <p>Entrez Gene: 1241 LTB4R Related reagents</p>
Synonyms	BLT, BLT1, BLTR, CMKRL1, GPR16, P2RY7
RRID	AB_324911
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	<p>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</p> <p>BLTR is expressed by peripheral blood granulocytes and is important in the pro-inflammatory response.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood.
References	<ol style="list-style-type: none"> 1. Pettersson, A. <i>et al.</i> (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. <i>et al.</i> (2010) Leukotriene B4 mediates gammadelta T lymphocyte migration in response to diverse stimuli. J Leukoc Biol. 87: 323-32. 3. Islam, S.A. <i>et al.</i> (2006) The leukotriene B4 lipid chemoattractant receptor BLT1 defines antigen-primed T cells in humans. Blood. 107: 444-53. 4. Medoff, B.D. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2007) Multiple chemokine receptors, including CCR6 and CXCR3, regulate antigen-induced T cell homing to the human asthmatic airway. J Immunol. 179: 1901-12. 8. Sabirsh, A. <i>et al.</i> (2005) Fluorescent leukotriene B4: potential applications. J Lipid Res. 46: 1339-46. 9. Loell, I. <i>et al.</i> (2012) Activated LTB4 pathway in muscle tissue of patients with polymyositis or dermatomyositis. Ann Rheum Dis. 72: 293-9. 10. Wang, L. <i>et al.</i> (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. 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

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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:Alexa Fluor® 647 \(MCA929A647\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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