

Datasheet: MCA2108FT

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| 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: | 25 µg |

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/positive controls.

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|------------------------|-----------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| 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 | | |

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| Preservative | 0.09% |
| Stabilisers | 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_2138874 |
| 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 | <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 atherosclerosis 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.](#)

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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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