

Datasheet: MCA2108

**BATCH NUMBER 159662**

<b>Description:</b>	MOUSE ANTI HUMAN BLTR
<b>Specificity:</b>	BLTR
<b>Other names:</b>	LEUKOTRIENE B4 RECEPTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	202/7B1
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.2 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			
Immunoassay	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% sodium azide.
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	HeLa cell transfectants expressing human BLTR.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q15722</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1241</a>    LTB4R    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	BLT, BLT1, BLTR, CMKRL1, GPR16, P2RY7
<b>RRID</b>	AB_323834
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human BLTR antibody, clone 202/7B1</b> 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>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood.
<b>References</b>	<ol style="list-style-type: none"> <li>Pettersson, A. <i>et al.</i> (2000) First-generation monoclonal antibodies identifying the human leukotriene B(4) receptor-1. <a href="#">Biochem Biophys Res Commun. 279 (2): 520-5.</a></li> <li>Costa, M.F. <i>et al.</i> (2010) Leukotriene B4 mediates gammadelta T lymphocyte migration in response to diverse stimuli. <a href="#">J Leukoc Biol. 87: 323-32.</a></li> <li>Islam, S.A. <i>et al.</i> (2006) The leukotriene B4 lipid chemoattractant receptor BLT1 defines antigen-primed T cells in humans. <a href="#">Blood. 107: 444-53.</a></li> <li>Medoff, B.D. <i>et al.</i> (2005) BLT1-mediated T cell trafficking is critical for rejection and obliterative bronchiolitis after lung transplantation. <a href="#">J Exp Med. 202: 97-110.</a></li> <li>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. <a href="#">Blood. 114: 3316-24.</a></li> <li>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. <a href="#">Circulation. 112: 578-86.</a></li> <li>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. <a href="#">J Immunol. 179: 1901-12.</a></li> </ol>

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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 \[Epub ahead of print\].](#)
14. Askarian, F. *et al.* (2021) The lytic polysaccharide monooxygenase CbpD promotes *Pseudomonas aeruginosa*. virulence in systemic infection. [Nat Commun. 12 \(1\): 1230.](#)
15. Williams, K.M. *et al.* (2022) Prospective Phase II Trial of Montelukast to Treat Bronchiolitis Obliterans Syndrome after Hematopoietic Cell Transplantation and Investigation into Bronchiolitis Obliterans Syndrome Pathogenesis. [Transplant Cell Ther. S2666-6367\(22\)00049-5.](#)

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2108>  
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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#), [DyLight®650](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

## Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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