

Datasheet: MCA2108XZ

Description:	MOUSE ANTI HUMAN BLTR:Preservative Free
Specificity:	BLTR
Other names:	LEUKOTRIENE B4 RECEPTOR
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	202/7B1
Isotype:	IgG2a
Quantity:	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	▪			1/100 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			
Immunoassay	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive control.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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

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 10⁶ 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) FcγRIIb 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 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. *et al.* (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. *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.](#)

Storage

Store at -20°C only.

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.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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