

DESCRIPTION

Species Reactivity	Human
Specificity	Recognizes human Leukotriene B4 R1 (Pettersson, A. <i>et al.</i> (2000) <i>Biochem. Biophys. Res. Commun.</i> 279 :520).
Source	Monoclonal Mouse IgG ₁ Clone # 203/14F11
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HeLa cervical epithelial carcinoma cell line transfected with human Leukotriene B4 R1
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human peripheral blood monocytes

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Polymorphonuclear granulocytes secrete the lipid chemotactic mediator Leukotriene B4 (LTB₄) in response to inflammatory stimuli (1). Neutrophils, monocytes and lymphocytes respond to LTB₄ via specific receptors localized on the cell surface (2-4). The high affinity LTB₄ Receptor known as BLT1 is only expressed on leukocytes (5-7) while a second low affinity receptor BLT2 is expressed more ubiquitously (8, 9). The BLT1 and BLT2 are G-protein linked seven-transmembrane spanning receptors that share about 37-45% amino acid identity (8, 9).

References:

1. Samuelsson, B. *et al.* (1987) *Science* **237**:1171.
2. Brom, J. and W. König (1989) *Immunology* **68**:479.
3. Patry, C. *et al.* (1996) *Prostaglandins, Leukotrienes and Essential Fatty Acids* **54**:361.
4. Dasari, V.R. *et al.* (2000) *Immunopharm.* **48**:157.
5. Pettersson, A. *et al.* (2000) *Biochem. Biophys. Res. Comm.* **279**:520.
6. Yokomizo, T. *et al.* (1997) *Nature* **387**:620.
7. Kato, K. *et al.* (2000) *J. Exp. Med.* **192**:413.
8. Yokomizo, T. *et al.* (2000) *J. Exp. Med.* **192**:421.
9. Kamohara, M. *et al.* (2000) *J. Biol. Chem.* **275**:27000.

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