

## DESCRIPTION

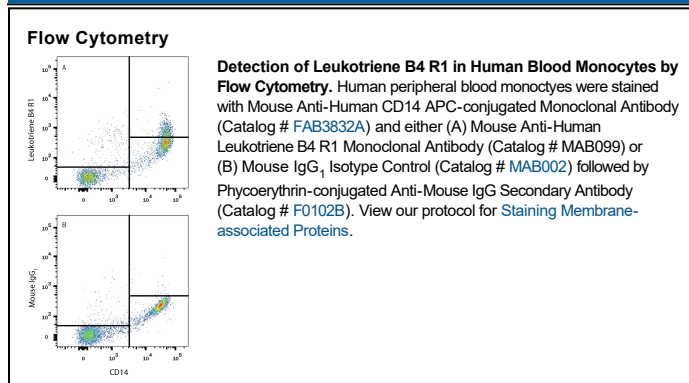
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Recognizes human Leukotriene B4 R1 (Pettersson, A. <i>et al.</i> (2000) <i>Biochem. Biophys. Res. Commun.</i> <b>279</b> :520).
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 203/14F11
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	HeLa cervical epithelial carcinoma cell line transfected with human Leukotriene B4 R1
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Polymorphonuclear granulocytes secrete the lipid chemotactic mediator Leukotriene B4 (LTB<sub>4</sub>) in response to inflammatory stimuli (1). Neutrophils, monocytes and lymphocytes respond to LTB<sub>4</sub> via specific receptors localized on the cell surface (2-4). The high affinity LTB<sub>4</sub> 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. Konig (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.