

Technical Data Sheet

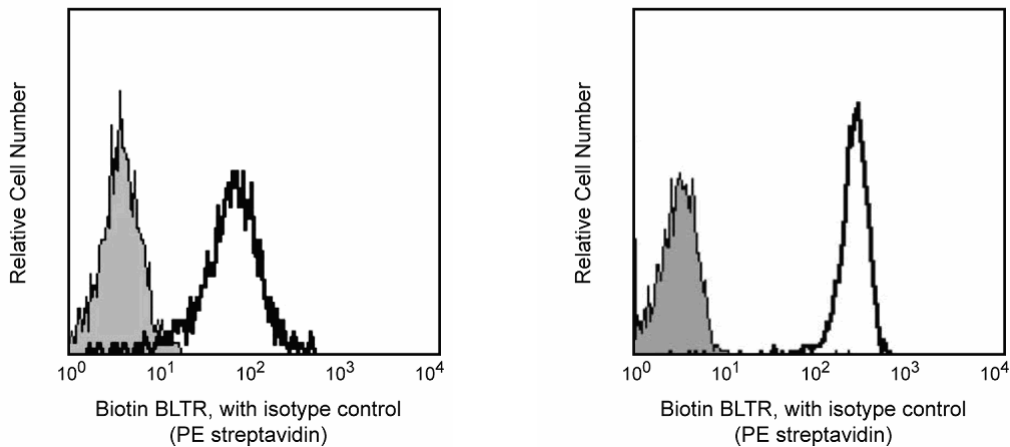
Biotin Mouse Anti-Human BLTR-1(Leukotriene B4 Receptor)

Product Information

Material Number:	552835
Alternate Name:	hBLTR-1
Size:	100 tests
Vol. per Test:	20 µl
Clone:	203/14F11
Immunogen:	Human BLTR-1-transfected cell line
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The monoclonal antibody 203/14F11 reacts against human leukotriene B4 receptor 1 (BLTR-1). BLTR-1 is a seven-transmembrane, G-protein-coupled receptor. The receptor plays an important role in pro-inflammatory responses. Leukotriene B4 receptors are distributed in various hematopoietic cells including monocytes, granulocytes, and lymphocytes. Leukotriene B4 (LTB4), a product of arachidonic acid metabolism, is the ligand for BLTR-1. The immunogen used to generate 203/14F11 hybridoma was a human BLTR-1-transfected cell line.



Detection of BLTR-1 expression on human peripheral monocytes and granulocytes by biotinylated 203/14F11. Human lysed whole blood were stained with 20 µl/test of biotinylated 203/14F11. Streptavidin-PE (Cat. No. 554061) was used as second-step reagent. The data reflects gating on monocytes (left panel) and granulocytes (right panel) based on forward and side scattered light signals. The level of nonspecific staining was assessed by using biotinylated mouse IgG1 (Cat. No. 555747) as isotype control (shaded histogram).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
554061	PE Streptavidin	0.5 mg	(none)
555747	Biotin Mouse IgG1 κ Isotype Control	100 tests	MOPC-21

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Dasari VR, Jin J, Kunapuli SP. Distribution of leukotriene B4 receptors in human hematopoietic cells. *Immunopharmacology*. 2000; 48(2):157-163.(Biology)
Pettersson A, Boketoft A, Sabirsh A, et al. First-generation monoclonal antibodies identifying the human leukotriene B(4) receptor-1. *Biochem Biophys Res Commun*. 2000; 279(2):520-525.(Immunogen)
Yokomizo T, Masuda K, Kato K, Toda A, Izumi T, Shimizu T. Leukotriene B4 receptor. Cloning and intracellular signaling. *Am J Respir Crit Care Med*. 2000; 161(2):551-555.(Biology)