

Technical Data Sheet

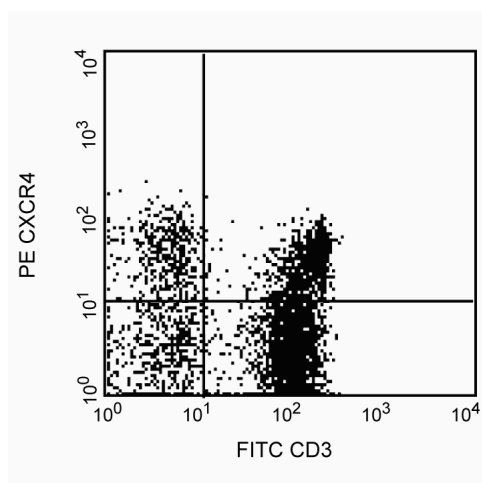
PE Mouse Anti-Human CD184

Product Information

Material Number:	557145
Alternate Name:	CXCR4; Fusin; SDF-1 receptor; LAP3; LCR1; LESTR; NPY3R; NPY3R; WHIM; HM8
Size:	50 Tests
Vol. per Test:	20 µl
Clone:	12G5
Isotype:	Mouse (BALB/c) IgG2a, κ
Reactivity:	QC Testing: Rhesus, Cynomolgus, Baboon
Workshop:	VII 70204, 70305
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Clone 12G5 reacts with the human form of fusin (CXCR4), a seven-transmembrane domain, G-protein-linked glycoprotein. This clone also cross-reacts with a subset of peripheral blood lymphocytes, monocytes, and granulocytes of baboon, and both rhesus and cynomolgus macaque monkeys. The reactivity on non-human primate lymphocytes is similar to that observed with lymphocytes from normal human donors, but is slightly weaker on monocytes and granulocytes.



Profile of anti-CD184 (Fusin) reactivity of peripheral blood lymphocytes on Rhesus macaque (macaca mulatta) analyzed by flow cytometry.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Recommended Assay Procedure:

Flow cytometry: Immunophenotyping studies of chemokine receptors need to be performed on freshly collected whole blood (<24 hours).

Incubation with the antibody should be done at room temperature in the dark. Cellular manipulation, such as Ficoll separation, freezing, or exposure to cold temperatures prior to staining have been shown to cause a decrease in staining intensity and inconsistent results.

Suggested Companion Products

Catalog Number	Name	Size	Clone
556653	PE Mouse IgG2a, κ Isotype Control	50 Tests	G155-178

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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. 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.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Endres MJ, Clapham PR, Marsh M, et al. CD4-independent infection by HIV-2 is mediated by fusin/CXCR4. *Cell*. 1996; 87(4):745-756. (Biology)

Feng Y, Broder CC, Kennedy PE, Berger EA. HIV-1 entry cofactor: functional cDNA cloning of a seven-transmembrane, G protein-coupled receptor. *Science*. 1996; 272(5263):872-877. (Biology)

Loetscher M, Geiser T, O'Reilly T, Zwahlen R, Baggiolini M, Moser B. Cloning of a human seven-transmembrane domain receptor, LESTR, that is highly expressed in leukocytes. *J Biol Chem*. 1994; 269(1):232-237. (Biology)

Nagasawa T, Nakajima T, Tachibana K, et al. Molecular cloning and characterization of a murine pre-B-cell growth-stimulating factor/stromal cell-derived factor 1 receptor, a murine homolog of the human immunodeficiency virus 1 entry coreceptor fusin. *Proc Natl Acad Sci U S A*. 1996; 93(25):14726-14729. (Biology)

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