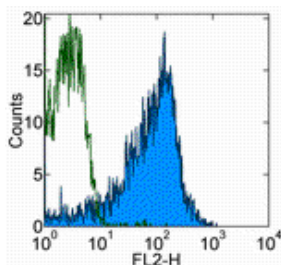


Anti-Human CD184 (CXCR4) PE

Catalog Number: 12-9999

Also Known As: Fusin

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Mouse IgG2a K Isotype Control PE (cat. 12-4724) (open histogram) or Anti-Human CD184 (CXCR4) PE (filled histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD184 (CXCR4) PE

REF **Catalog Number:** 12-9999

Clone: 12G5

Concentration: 5 µL (0.25 µg)/test

Host/Isotype: Mouse IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Contains sodium azide**

Description

The 12G5 monoclonal antibody reacts with human CXCR4 (CD184), also termed Fusin, LESTR, or HUMSTR. Fusin is a member of the G-protein-coupled chemokine receptor family with seven membrane-spanning domains, and functions as a coreceptor for X4 HIV-1 entry into CD4+ cells. CXCR4 is expressed predominantly on naïve T cell subsets of peripheral blood and is rapidly upregulated by PHA and IL-2 stimulation. 12G5 shows partial inhibition of chemotaxis and calcium influx induced by SDF-1 (the natural ligand of CXCR4), blocks CD4-independent HIV-2 infection, and blocks CD4-dependent infection by some T-tropic HIV-1 isolates.

Applications Reported

This 12G5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The 12G5 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 5 µL (0.25 µg)/per test. A test is defined as the amount (µg)/test of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

McKnight, A. et al. (1997). Inhibition of human immunodeficiency virus fusion by a monoclonal antibody to a coreceptor (CXCR4) is both cell type and virus strain dependent. *J Virol* 71(2): 1692-6.

Bleul, C. et al. (1997). The HIV coreceptors CXCR4 and CCR5 are differentially expressed and regulated on human T lymphocytes. *Proc Natl Acad Sci U S A* 94(5): 1925-30.

Related Products

12-4724 Mouse IgG2a K Isotype Control PE

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com