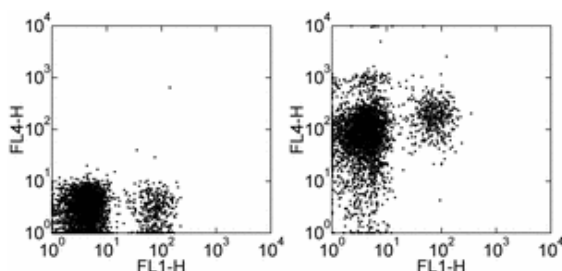


## Anti-Human CD184 (CXCR4) APC

Catalog Number: 17-9999

Also Known As: Fusin

RUO: For Research Use Only



Staining of normal human peripheral blood cells with Anti-Human CD184 (CXCR4) APC (cat. 17-9999) and Mouse IgG2a κ Isotype Control APC (cat. 17-4724) (left) or Anti-Human CD184 (CXCR4) APC (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

Contents: Anti-Human CD184 (CXCR4) APC


**REF** Catalog Number: 17-9999

Clone: 12G5

Concentration: 5 µl (0.25 µg)/test


Host/Isotype: Mouse IgG2a, κ

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

 Caution, contains 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<sup>+</sup> cells. CXCR4 is expressed predominantly on naive 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

This 12G5 antibody has been pre-titrated and tested by flow cytometric analysis of human lysed whole blood. 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 10<sup>5</sup> to 10<sup>8</sup> 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

17-4724 Mouse IgG2a K Isotype Control APC

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