

CD184 (CXCR4) Monoclonal Antibody (12G5), PE-Cyanine5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Rhesus monkey
Host/Isotope	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	12G5
Conjugate	PE-Cyanine5
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10670201

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	5 µL (0.5 µg)/test	8 Publications

Product Specific Information

Description: The 12G5 monoclonal antibody reacts with human CD184 (CXCR4), also termed Fusin, LESTR, or HUMSTR. CD184 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. CD184 is expressed predominantly on naive T cell subsets of peripheral blood and is rapidly upregulated by PHA and IL-2 stimulation. The 12G5 antibody shows partial inhibition of chemotaxis and calcium influx induced by SDF-1 (the natural ligand of CD184), blocks CD4-independent HIV-2 infection, and blocks CD4-dependent infection by some T-tropic HIV-1 isolates.

Applications Reported: The 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 normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) 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.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

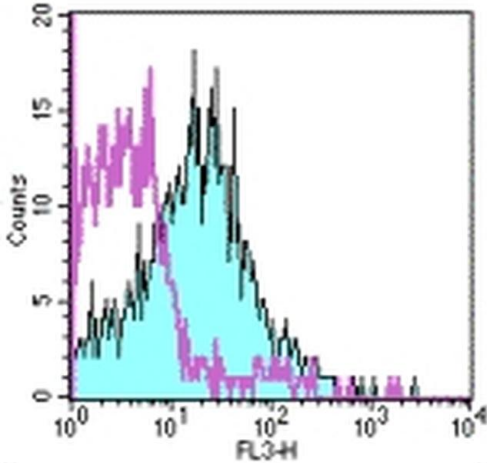
Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD184 (CXCR4) Monoclonal Antibody (12G5), PE-Cyanine5, eBioscience™

CD184 (CXCR4) Antibody (15-9999-42) in Flow

Staining of normal human peripheral blood cells with staining buffer (autofluorescence) (open histogram) or Anti-Human CD184 (CXCR4) PE-Cyanine5 (filled histogram). Cells in the lymphocyte gate were used for analysis.



Flow Cytometry (8)

Reproductive biology and endocrinology : RB and E

Modulatory effects of trophoblast-secreted CXCL12 on the migration and invasion of human first-trimester decidual epithelial cells are mediated by CXCR4 rather than CXCR7.

"15-9999 was used in Flow cytometry/Cell sorting to explore whether human first-trimester trophoblast cells were capable of modulating the migration and invasion of human first-trimester decidual epithelial cells via CXCL12/CXCR4 /CXCR7 signaling."

Authors: Zheng J,Wang H,Zhou W

Species
Human

Dilution
Not Cited

Year
2018

PLoS pathogens

Porphyromonas gingivalis evasion of autophagy and intracellular killing by human myeloid dendritic cells involves DC-SIGN-TLR2 crosstalk.

"15-9999 was used in Flow cytometry/Cell sorting to reveal that selective engagement of DC-SIGN by Mfa-1+P. gingivalis results in intracellular persistence in myeloid DCs."

Authors: El-Awady AR,Miles B,Scisci E,Kurago ZB,Palani CD,Arce RM,Waller JL,Genco CA,Slocum C,Manning M, Schoenlein PV,Cutler CW

Species
Human

Dilution
Not Cited

Year
2015

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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