CD184 (CXCR4) Monoclonal Antibody (12G5), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Hamster, Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	12G5
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_1724113

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	29 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: 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) 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 10^5 to 10^8 cells/test.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD184 (CXCR4) Monoclonal Antibody (12G5), APC, eBioscience™

CD184 (CXCR4) Antibody (17-9999-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD19 FITC (Product # 11-0199-42) and Mouse IgG2a K Isotype Control APC (Product # 17-4724-81) (left) or Anti-Human CD184 (CXCR4) APC (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

29 References

Flow Cytometry (29)

International journal of cancer

Dynamics of CXCR4 positive circulating tumor cells in prostate cancer patients during radiotherapy.

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 17-9999-42) in Flow Cytometry"

Authors: Klusa D,Lohaus F,Franken A,Baumbach M,Cojoc M,Dowling P,Linge A,Offermann A,Löck S,Hušman D, Rivandi M,Polzer B,Freytag V,Lange T,Neubauer H,Kücken M,Perner S,Hölscher T,Dubrovska A,Krause M,Kurth I, Baumann M,Peitzsch C

Year
2023

Frontiers in pharmacology

***Amanita muscaria* extract potentiates production of proinflammatory cytokines by dsRNA-activated human microglia.**

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 17-9999-42) in Flow Cytometry"

Authors: Wagner A,Pehar M,Yan Z,Kulka M

Year
2023

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

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