

CD184 (CXCR4) Monoclonal Antibody (12G5), PE, eBioscience

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PE, eBioscience
Class	Monoclonal
Type	Antibody
Clone	12G5
Conjugate	PE
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_10669164

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	12 Publications

Product Specific Information

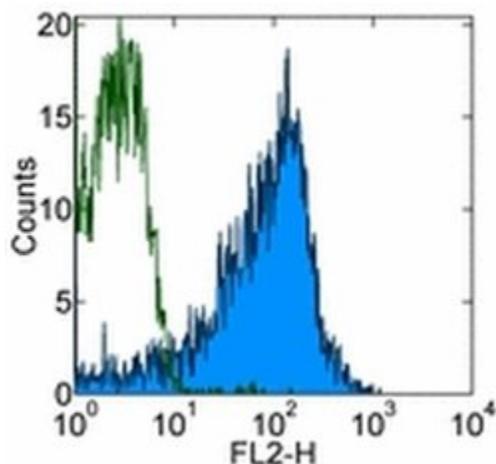
Description: The 12G5 monoclonal antibody reacts with human CD184 (CXCR4), also termed Fusin, LESTR, or HUMSTR. CD184 is a member of the G-protein-coupled chemokine receptor family with seven membrane-spanning domains, and functions as a coreceptor for X4 HIV-1 entry into CD4+ cells. CD184 is expressed 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: The 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 (0.25 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 10⁵ to 10⁸ cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.



CD184 (CXCR4) Antibody (12-9999-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG2a K Isotype Control PE (Product # 12-4724-81) (open histogram) or Anti-Human CD184 (CXCR4) PE (filled histogram). Cells in the lymphocyte gate were used for analysis.

12 References

Flow Cytometry (12)

Infection and immunity

Secondary lymphoid organ homing phenotype of human myeloid dendritic cells disrupted by an intracellular oral pathogen.

"12-9999 was used in Flow cytometry/Cell sorting to investigate how the alteration in chemokine-chemokine receptor expression contributes to pathogen trafficking via myeloid dendritic cells, showing that P.gingivalis infection induces an angiogenic migratory profile and disrupts secondary lymphoid organ-homing CCR7."

Authors: Miles B,Zakhary I,El-Awady A,Scisci E,Carrion J,O'Neill JC,Rawlings A,Stern JK,Susin C,Cutler CW

Species
Human

Dilution
Not Cited

Year
2014

Scientific reports

3D Microfluidic model for evaluating immunotherapy efficacy by tracking dendritic cell behaviour toward tumor cells.

"12-9999 was used in Flow cytometry/Cell sorting to study the interactions between IFN-dendritic cells and cancer cells in response to anti-tumour agents."

Authors: Parlato S,De Ninno A,Molfetta R,Toschi E,Salerno D,Mencattini A,Romagnoli G,Fragale A,Roccazzello L,Buoncervello M,Canini I,Bentivegna E,Falchi M,Bertani FR,Gerardino A,Martinelli E,Natale C,Paolini R,Businaro L,Gabriele L

Species
Human

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

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