



# CD184 (CXCR4) Monoclonal Antibody (12G5), PE-eFluor™ 610, eBioscience™

<b>Product Details</b>	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	12G5
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 nm
Form	Liquid
Concentration	5 μL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2815322

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 μL (1.0 μg)/test	13 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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at  $5 \mu L$  (1.0  $\mu g$ ) per test. A test is defined as the amount ( $\mu g$ ) of antibody that will stain a cell sample in a final volume of 100  $\mu L$ . Cell number should be determined empirically but can range from 10^5 to 10^8 cells /test.

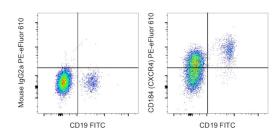
PE-eFluor 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red). Please make sure that your instrument is capable of detecting this fluorochrome.

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

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

# Product Images For CD184 (CXCR4) Monoclonal Antibody (12G5), PE-eFluor™ 610, eBioscience™



### CD184 (CXCR4) Antibody (61-9999-42) in Flow

Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, FITC (Product # 11-0199-42) and Mouse IgG2a kappa Isotype Control, PE-eFluor 610 (Product # 61-4724-80) (left) or CD184 (CXCR4) Monoclonal Antibody, PE-eFluor 610 (right). Cells in the lymphocyte gate were used for analysis.

# View more figures on thermofisher.com

#### □ 13 References

# Flow Cytometry (13)

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 # 61-9999-42) 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

International journal of molecular sciences

# Airway and Lung Organoids from Human-Induced Pluripotent Stem Cells Can Be Used to Assess CFTR Conductance.

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 61-9999-42) in Flow Cytometry"

Authors: Demchenko A,Kondrateva E,Tabakov V,Efremova A,Salikhova D,Bukharova T,Goldshtein D,Balyasin M, Bulatenko N,Amelina E,Lavrov A,Smirnikhina S

**Year** 2023

View more Flow references on thermofisher.com

### More applications with references on thermofisher.com

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