

CD184 (CXCR4) Monoclonal Antibody (2B11), Biotin, eBioscience™

Product Details	
Size	100 µg
Species	Mouse
Published Species	Artificial Control, Mouse, Human
Expression System	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2B11
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10609202

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	11 Publications
Immunofluorescence (IF)	-	3 Publications
Western Blot (WB)	-	1 Publication

Product Specific Information

Description: The 2B11 monoclonal antibody reacts with mouse and human CXCR4, also known as CD184, 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+ cells. In addition it has been shown to play a role in lymphocyte migration. The ligand for CXCR4 is SDF1. CXCR4 is required for maintenance of granulocyte progenitors in the bone marrow and essential for B cell development. Expression of CXCR4 is different between mice and human. In the thymus CXCR4 is restricted to CD4+CD8+ cells while in the spleen predominant expression is found on B lymphocytes.

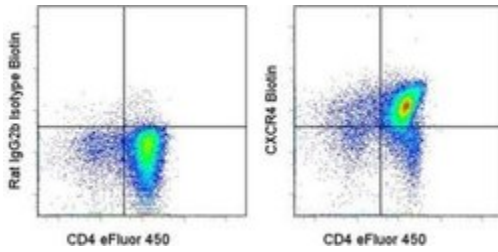
The monoclonal antibody 2B11 recognizes the amino terminus of CXCR4 and has been reported to have functional activity; it does not block SDF1a but causes internalization of the receptor.

Applications Reported: This 2B11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 2B11 antibody has been tested by flow cytometric of mouse thymocytes. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD184 (CXCR4) Monoclonal Antibody (2B11), Biotin, eBioscience™



CD184 (CXCR4) Antibody (13-9991-82) in Flow

Staining of C57Bl/6 thymocytes with Anti-Mouse CD4 eFluor® 450 (Product # 48-0042-82) and 0.5 µg of Rat IgG2b Isotype Control Biotin (Product # 13-4031-82) (left) or 0.5 µg of Anti-Mouse CD184 (CXCR4) (right) followed by Streptavidin APC (Product # 17-4314-82). Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Flow Cytometry (11)

Journal of stem cell research and therapy

Induced Pluripotent Stem Cells derived Muscle Progenitors Effectively Mitigate Muscular Dystrophy through Restoring the Dystrophin Distribution.

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 13-9991-82) in Flow Cytometry"

Authors: Cai WF,Huang W,Wang L,Wang JP,Zhang L,Ashraf M,Wu S,Wang Y

Species
Not Applicable

Dilution
Not Cited

Year
2020

NPJ vaccines

Enhanced germinal center reaction by targeting vaccine antigen to major histocompatibility complex class II molecules.

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 13-9991-82) in Flow Cytometry"

Authors: Andersen TK,Huszthy PC,Gopalakrishnan RP,Jacobsen JT,Fauskanger M,Tveita AA,Grødeland G,Bogen B

Species
Artificial Control

Dilution
Not Cited

Year
2020

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

Immunofluorescence (3)

Nature communications

Precardiac organoids form two heart fields via Bmp/Wnt signaling.

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 13-9991-82) in Immunofluorescence"

Authors: Andersen P,Tampakakis E,Jimenez DV,Kannan S,Miyamoto M,Shin HK,Saberi A,Murphy S,Sulistio E,Chelko SP,Kwon C

Species
Not Applicable

Dilution
Not Cited

Year
2018

PloS one

Optochemokine Tandem for Light-Control of Intracellular Ca2.

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 13-9991-82) in Immunofluorescence"

Authors: Feldbauer K,Schlegel J,Weissbecker J,Sauer F,Wood PG,Bamberg E,Terpitz U

Species
Not Applicable

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

WB (1)

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