



CD184 (CXCR4) Monoclonal Antibody (2B11), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	25 μg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	2B11
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_953573

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	1 μg/test	17 Publications

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.

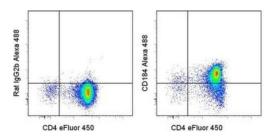
Applications Reported: This 2B11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 2B11 antibody has been tested by flow cytometric analysis of mouse thymocytes. This can be used at less than or equal to 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD184 (CXCR4) Monoclonal Antibody (2B11), Alexa Fluor™ 488, eBioscience™



CD184 (CXCR4) Antibody (53-9991-80) in Flow

Staining of C57Bl/6 thymocytes with Anti-Mouse CD4 eFluor® 450 (Product # 48-0042-82) and 0.5 μ g of Rat IgG2b kappa Isotype Control Alexa Fluor® 488 (Product # 53-4031-80) (left) or 0.5 μ g of Anti-Mouse CD184 (CXCR4) Alexa Fluor® 488 (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 20 References

Immunocytochemistry (3)

Nature communications

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

Year 2018

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 53-9991-80) in Immunofluorescence"

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

PloS one

Optochemokine Tandem for Light-Control of Intracellular Ca2.

Year 2017

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 53-9991-80) in Immunofluorescence" Authors: Feldbauer K,Schlegel J,Weissbecker J,Sauer F,Wood PG,Bamberg E,Terpitz U

View more ICC/IF references on thermofisher.com

Flow Cytometry (17)

NPJ vaccines

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

Year 2023

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 53-9991-80) in Flow Cytometry"

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

Journal of medicinal chemistry

Designing Synthetic, Sulfated Glycosaminoglycan Mimetics That Are Orally Bioavailable and Exhibiting *In Vivo* Anticancer Activity.

Year 2023

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 53-9991-80) in Flow Cytometry"

Authors: Morla S,Ravikumar O,O'Hara C,Boothello R,Vera A,Abdelfadiel EI,Fayyad R,Afosah DK,Sharon C,Fernandez L,Shah SA,

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

For Research Use Only, Not for use in diagnostic procedures. Not for resale without express authorization, Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production occumentation performs performed to perform substantially in conformance with published Product is subjected to normal, proper and intended usage. This warranty fore not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT.

BUYER'S EXCLUSIVE REMEDY FOR NON-CORNORMOR PRODUCTS DURING THE WARRANTED TO REPGAIR, REPLACE OR REFUND FOR REPGIND FOR THE NON-CONFORMING PRODUCTS, AT SELLEY'S SOLE OPTION. THERE IS NO BELIGATION TO REPAIR, REPLACE OR REFUND FOR REDUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MALEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, or vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.