

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

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Biotin, eBioscience™
Class	Monoclonal
Туре	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	10 Publications
Immunofluorescence (IF)	-	3 Publications
Western Blot (WB)	-	1 Publication

Product Specific Information

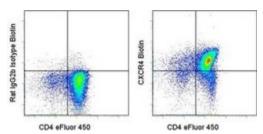
Description: The 2B11 monoclonal antibody reacts with mouse and human CXCR4, also known as CD184, Fusin, LESTR, or HUMSTR. Fusin is a member of the G-protein-coupled chemokine receptor family with seven membrane-spanning domains, and functions as a coreceptor for X4 HIV-1 entry into CD4+ cells. In addition 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 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.

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 A nti-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

□ 14 References

Flow Cytometry (10)

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

DilutionNot Cited

Year 2019

Stem cell reports

A Functional Bioluminescent Zebrafish Screen for Enhancing Hematopoietic Cell Homing.

"Published figure using CD184 (CXCR4) monoclonal antibody (Product # 13-9991-82) in Flow Cytometry" Authors: Astuti Y,Kramer AC,Blake AL,Blazar BR,Tolar J,Taisto ME,Lund TC

SpeciesNot Applicable

Dilution Not Cited

Year 2017

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)

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 documentation, specifications and/or accompanying package inserts ("Documentation,"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended uses 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 WARRANTES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR RYBOUTES, SATE SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR RYBOUTES, IN AMAINER FOR WHICH THEY WERE NOT DESIGNED, OR I(I) IMPOPER STORAGE AND HANDLING OF THE PRODUCTS. A THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) WISUSE, FAULT OR NEGLICENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR I(I) IMPOPER STORAGE AND HANDLING OF THE PRODUCTS. Whises 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, in vitro diagnostic uses, or vivo or in vivo therapeutic uses, or any type of consumption to human or animals.