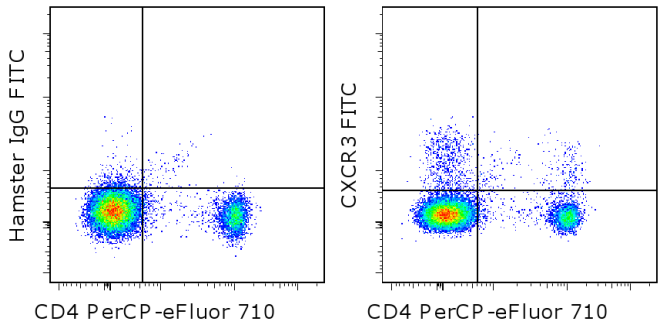
Anti-Mouse CD183 (CXCR3) FITC

Catalog Number: 11-1831
Also known as: C-X-C chemokine receptor type 3, IP-10 receptor
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with Anti-Mouse CD4 PerCP-eFluor® 710 (cat. 46-0042) and 0.125 ug of Armenian Hamster IgG Isotype Control FITC (cat. 11-4888) (left) or 0.125 ug of Anti-Mouse CD183 (CXCR3) FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD183 (CXCR3) FITC
REF **Catalog Number:** 11-1831
Clone: CXCR3-173
Concentration: 0.5 mg/mL
Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

The monoclonal antibody CXCR3-173 recognizes mouse CD183 also known as CXCR3. CD183 is a seven transmembrane G-protein liked chemokine receptor which binds three ligands; CXCL9 (mig), CXCL10 (IP-10)and CXCL11 (ITAC). CD183 as been shown to play a role in CD4 T cell responses to grafts. CXCR3 knockout mice have compromised allograft rejection responses. Expression is found on NK cells, a subset of T lymphocytes and a subset of Tregs as well as preferential expression on Th1-polarized cells.

The antibody CXCR3-173 has been shown to affect chemotaxis in response to ligand. The presence of ligand eliminates staining with the antibody. *In vivo* addition of the antibody delays cardiac and pancreatic islet allograft rejection.

Applications Reported

This CXCR3-173 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This CXCR3-173 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Uppaluri R, Sheehan KC, Wang L, Bui JD, Brotman JJ, Lu B, Gerard C, Hancock WW, Schreiber RD. Prolongation of Cardiac and islet allograft survival by a blocking hamster anti-mouse CXCR3 monoclonal antibody. Transplantation. 2008 Jul 15;86(1):137-147. (CXCR3, FA, FC PubMed)

Morimoto Y, Bian Y, Gao P, Yashiro-Ohtani Y, Zhou XY, Ono S, Nakahara H, Kogo M, Hamaoka T, Fujiwara H. Induction of surface CCR4 and its functionality in mouse Th2 cells is regulated differently during Th2 development. J Leukoc Biol. 2005 Sep;78(3):753-61.

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Related Products
00-4222 Flow Cytometry Staining Buffer
11-4888 Armenian Hamster IgG Isotype Control FITC (eBio299Arm)
46-0042 Anti-Mouse CD4 PerCP-eFluor® 710 (RM4-5)

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