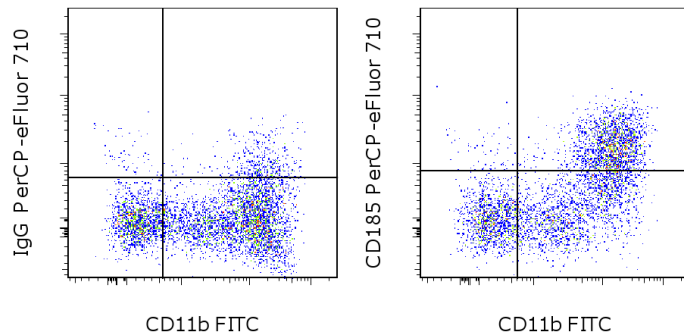


Anti-Mouse CD195 (CCR5) PerCP-eFluor[®] 710

Catalog Number: 46-1951

Also known as: MIP-1 alpha Receptor C-C chemokine receptor type 5, Cmkbr5

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of FcR-blocked (Anti-Mouse CD16/CD32 Purified, cat. 14-0161) BALB/c peritoneal exudate cells with Anti-Mouse CD11b FITC (cat. 11-0112) and 0.125 ug of Armenian Hamster IgG Isotype Control PerCP-eFluor[®] 710 (cat. 46-4888) (left) or 0.125 ug of Anti-Mouse CD195 (CCR5) PerCP-eFluor[®] 710 (right). Cells in the large scatter population were used for analysis.

Product Information

Contents: Anti-Mouse CD195 (CCR5)
PerCP-eFluor[®] 710

REF **Catalog Number:** 46-1951

Clone: HM-CCR5 (7A4)

Concentration: 0.2 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.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



Description

CCR5 is the major co-receptor for macrophage-tropic isolates of HIV-1. CCR5, also known as CD195, is a seven transmembrane chemokine receptor capable of binding RANTES, MIP-1 alpha and MIP-1 beta. Knockout mice show a decreased recruitment of macrophages and increased susceptibility to infection. Protein and mRNA has been found in macrophages from thioglycolate-treated and activated T cells.

The HM-CCR5(7A4) monoclonal antibody binds the N terminal extracellular domain of mouse CCR5 with no crossreactivity to human CCR5.

Applications Reported

This HM-CCR5 (7A4) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This HM-CCR5 (7A4) antibody has been tested by flow cytometric analysis of mouse thioglycolated- induced peritoneal exudate cells. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor[®] 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

References

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Ishida Y, Kimura A, Kuninaka Y, Inui M, Matsushima K, Mukaida N, Kondo T. Pivotal role of the CCL5/CCR5 interaction for recruitment of endothelial progenitor cells in mouse wound healing *J Clin Invest*. 2012; 122(2):711–721.

Iwasaki M, Mukai T, Nakajima C, Yang YF, Gao P, Yamaguchi N, Tomura M, Fujiwara H, Hamaoka T. A mandatory role for STAT4 in IL-12 induction of mouse T cell CCR5. *J. Immunol.* 2001.167(12): 6877-83.

Zhou Y, Kurihara T, Ryseck RP, Yang Y, Ryan C, Loy J, Warr G, Bravo R. Impaired macrophage function and enhanced T cell-dependent immune response in mice lacking CCR5, the mouse homologue of the major HIV-1 coreceptor. *J Immunol.* 1998 Apr 15;160(8):4018-25.

Meyer A, Coyle AJ, Proudfoot AE, Wells TN, Power CA. Cloning and characterization of a novel murine macrophage inflammatory protein-1 alpha receptor. *J Biol Chem.* 1996 Jun 14;271(24):14445-51.

Related Products

11-0112 Anti-Mouse CD11b FITC (M1/70)

14-0161 Anti-Mouse CD16/CD32 Purified (93)

46-4888 Armenian Hamster IgG Isotype Control PerCP-eFluor[®] 710 (eBio299Arm)

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