
Anti-Mouse CD195 (CCR5) Purified

Catalog Number: 14-1951

Also Known As: MIP-1 alpha Receptor C-C chemokine receptor type 5, Ccr5

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

Product Information

Contents: Anti-Mouse CD195 (CCR5) Purified

REF **Catalog Number:** 14-1951

Clone: HM-CCR5 (7A4)

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.

LOT **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

The 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 transfected cells. 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.

References

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

11-4111 Anti-Armenian Hamster IgG FITC

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

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