abcam

Product datasheet

# PE Anti-CCR5 antibody [HM-CCR5(7A4)] ab95662

1 Image

## Overview

| | |
|---|---|
| **Product name** | PE Anti-CCR5 antibody [HM-CCR5(7A4)] |
| **Description** | PE Armenian hamster monoclonal [HM-CCR5(7A4)] to CCR5 |
| **Host species** | Armenian hamster |
| **Conjugation** | PE. Ex: 488nm, Em: 575nm |
| **Specificity** | Binds to the N terminal extracellular domain of Mouse CCR5 with no cross reactivity to Human CCR5. |
| **Tested applications** | **Suitable for:** Flow Cyt |
| **Species reactivity** | **Reacts with:** Mouse<br>**Does not react with:** Human |
| **Immunogen** | Full length protein corresponding to Mouse CCR5. Native protein |
| **Positive control** | Mouse thioglycolate-elicited peritoneal-exudate cells |
| **General notes** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C. |
| **Storage buffer** | pH: 7.20<br>Preservative: 0.09% Sodium azide<br>Constituent: PBS |
| **Purity** | Protein G purified |
| **Clonality** | Monoclonal |
| **Clone number** | HM-CCR5(7A4) |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab95662 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **Flow Cyt** | | Use 0.5-1µg for $10^{5-8}$ cells.<br>in a final volume of 100 µL<br><br>**ab101026** - Armenian Hamster monoclonal IgG, is suitable for |

## Target

**Function** Receptor for a number of inflammatory CC-chemokines including MIP-1-alpha, MIP-1-beta and RANTES and subsequently transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation. Acts as a coreceptor (CD4 being the primary receptor) for HIV-1 R5 isolates.

**Tissue specificity** Highly expressed in spleen, thymus, in the myeloid cell line THP-1, in the promyeloblastic cell line KG-1A and on CD4+ and CD8+ T-cells. Medium levels in peripheral blood leukocytes and in small intestine. Low levels in ovary and lung.

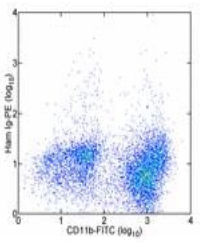
**Involvement in disease** Genetic variation in CCR5 is associated with suseptibility to diabetes mellitus insulin-dependent type 22 (IDDM22) [MIM:612522]. A multifactorial disorder of glucose homeostasis that is characterized by susceptibility to ketoacidosis in the absence of insulin therapy. Clinical fetaures are polydipsia, polyphagia and polyuria which result from hyperglycemia-induced osmotic diuresis and secondary thirst. These derangements result in long-term complications that affect the eyes, kidneys, nerves, and blood vessels.

**Sequence similarities** Belongs to the G-protein coupled receptor 1 family.

**Post-translational modifications** Sulfated on at least 2 of the N-terminal tyrosines. Sulfation contributes to the efficiency of HIV-1 entry and is required for efficient binding of the chemokines, CCL3 and CCL4.
O-glycosylated, but not N-glycosylated. Ser-6 appears to be the major site. Also sialylated glycans present which contribute to chemokine binding. Thr-16 and Ser-17 may also be glycosylated and, if so, with small moieties such as a T-antigen.
Palmitoylation in the C-terminal is important for cell surface expression, and to a lesser extent, for HIV entry.
Phosphorylation on serine residues in the C-terminal is stimulated by binding CC chemokines especially by APO-RANTES.

**Cellular localization** Cell membrane.

## Images




Flow Cytometry - PE Anti-CCR5 antibody [HM-CCR5(7A4)] (ab95662)

Flow cytometry images showing staining of FcR-blocked (Anti-Mouse CD16/CD32) BALB/c thioglycolate-induced peritoneal exudate cells with Anti-Mouse CD11b FITC and 0.5 µg of Armenian Hamster IgG Isotype Control PE (left) or 0.5 µg of ab95662 (right). Total viable cells were used for analysis.



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