



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** Anti-Human CCR5 Monoclonal (3A9)

**Catalog Number:** 4914

**Lot Number:** 040134

**Release Category:** A

**Provided:** 100 µg (~2 µL) of purified antibody in aqueous buffered solution containing 0.09% sodium azide.  
Dilute the antibody to 1 mg/mL with PBS prior to use.

**Description:** A monoclonal antibody to human CCR5

**Host:** Mouse

**Special Characteristics:** This antibody was produced in cell culture and was purified by Protein G affinity chromatography.  
This antibody reacts with the chemokine receptor, CCR5, a seven transmembrane-spanning GPCR. 3A9 antibody has also been reported to cross-react with CCR8. Results of epitope mapping and sequence comparison between CCR5 and CCR8 reveals that the first three amino acid residues for these two receptors are identical: MDY (Met-Asp-Tyr).  
CCR5 is expressed on a subset of T lymphocytes and ligands include: RANTES and macrophage inflammatory protein-1 (MIP-1) $\alpha$  and  $\beta$ . Additionally, CCR5 has been found to be a co-receptor for HIV-1 infection.  
Recommendation: Immunophenotyping studies of chemokine receptors need to be performed on freshly collected whole blood (<24 Hrs). Incubation with the antibody should be done at room temperature in the dark. Cellular manipulation, such as Ficoll separation, freezing, or exposure to cold temperatures prior to staining have been shown to cause a decrease in staining intensity and inconsistent results.

**For Research Use Only. Not For Diagnostic or Therapeutic Use.**

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ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**Recommended Storage:** Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.

**Contributor:** NIAID, DAIDS, (BD Biosciences)

**Isotype:** IgG<sub>2a</sub> κ

**References:** Rottman, J. B., Ganley, K. P., Williams, K., Wu, L., Mackay, C. R., & Ringler, D. J. (1997). Cellular localization of the chemokine receptor CCR5. Correlation to cellular targets of HIV-1 infection. *Am J Pathol*, 151(5), 1341-1351. [PUBMED](#)

**NOTE:** Acknowledgement for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: MAb (mouse) to hCCR5 (3A9)."

**Last Updated** February 08, 2018

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