



## NIH AIDS Reagent Program

20301 Century Boulevard  
Building 6, Suite 200  
Germantown, MD 20874  
USA

Phone: 240 686 4740  
Fax: 301 515 4015  
aidsreagent.org

### DATA SHEET

**Reagent:** Anti-Human CXCR4 Monoclonal (44717)

**Catalog Number:** 4083

**Lot Number:** 150082

**Release Category:** A

**Provided:** 100 µg lyophilized, purified protein. Lyophilized from 100 µL of a 0.2 µm filtered solution in PBS, pH 7.4 with 5% Trehalose. Reconstitute at 0.5 mg/mL in sterile PBS.

**Description:** This antibody was produced from a mouse hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with 3T3 cells transfected with human CXCR4. The IgG fraction of tissue culture supernatant was purified by Protein G affinity chromatography.

Selected for ability to react in FACS specifically with human and non-human cells expressing human CXCR4. Also react with cells expressing feline CXCR4, but not rat CXCR4. Not cross-reactive with other chemokine receptors.

**Host:** Balb/c mouse splenocyte.

**Titer:** Endotoxin Level: Less than 0.10 EU per 1 µg of the antibody by the LAL method.

**Special Characteristics:** Specificity: human CXCR4 (fusin)  
Applications: Flow Cytometry, Neutralization of bioactivity.

Flow Cytometry- Recommended concentration for Jurkat human acute T cell leukemia cells is 2.5 µg/10<sup>6</sup> cells.

Neutralization- Measured by its ability to neutralize CXCL12/SDF-1α-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR4. The Neutralization Dose (ND<sub>50</sub>) is typically 1-5 µg/mL in the presence of 1 ng/mL Recombinant Human/Feline/Rhesus Macaque CXCL12/SDF-1α.

*Please Note: Optimal dilutions should be determined by each laboratory for each application.*

Commercially available at BDB Systems (Cat# MAB173)

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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.

**Commercially available at R&D Systems (Cat# MAB173).**

**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:** DAIDS, NIAID

**Isotype:** IgG<sub>2b</sub>

**NOTE:** Acknowledgement for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Anti-Human CXCR4 Monoclonal (44717)."

**Last Updated** August 31, 2018

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