**DESCRIPTION**

**Species Reactivity**  Human

**Specificity**  Detects human CXCR4.

**Source**  Monoclonal Mouse IgG₂A Clone # 12G5

**Purification**  Protein A or G purified from ascites

**Immunogen**  CP-MAC-infected SUP-T1 human T cell lymphoblastic lymphoma line

**Conjugate**  Fluorescein

**Excitation Wavelength:** 488 nm

**Emission Wavelength:** 515-545 nm (FITC)

**Formulation**  Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tr>
<td>10 µL/10⁶ cells</td>
<td>See Below</td>
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</table>

**DATA**

**Flow Cytometry**

Detection of CXCR4 in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human CXCR4 Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB170F) and Mouse Anti-Human CD19 PE-conjugated Monoclonal Antibody (Catalog # FAB4867P).

View our protocol for Staining Membrane-associated Proteins.

**PREPARATION AND STORAGE**

**Shipping**  The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage**  Protect from light. Do not freeze.

- 12 months from date of receipt, 2 to 8 °C as supplied.

**BACKGROUND**

CXCR4, also known as CD184, is a G-protein-linked seven transmembrane spanning receptor that binds stromal cell-derived factor-1 (SDF-1). CXCR4 acts as a co-factor for T-cell tropic HIV-1 and -2 viral entry into cells.

**References:**