**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects human CCR5 in Western blots. For additional information regarding epitope specificity for this antibody and other R&D Systems anti-human CCR5 antibodies, see Reference 1.

**Source**  
Monoclonal Mouse IgG1, Clone # CTC5

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
CHO Chinese hamster ovary cell line transfected with human CCR5

**Formulation**  
Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**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>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>0.25 μg/10⁶ cells</td>
<td>See Below</td>
</tr>
<tr>
<td>CyTOF-ready</td>
<td></td>
<td>Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.</td>
</tr>
<tr>
<td>Western Blot</td>
<td></td>
<td>Lee, B. et al. (1999) J. Biol. Chem. 274:9617. This application was not tested by R&amp;D Systems.</td>
</tr>
</tbody>
</table>

**DATA**

**Flow Cytometry**  
Detection of CCR5 in Human Peripheral Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with (A) Mouse Anti-Human CCR5 Monoclonal Antibody (Catalog # MAB1802) or (B) control antibody (Catalog # MAB002), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B) and Mouse anti-Human CD3 APC-conjugated monoclonal antibody (Catalog # FAB100A). View our protocol for Staining Membrane-associated Proteins.

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 ºC.

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 ºC as supplied.
- 1 month, 2 to 8 ºC under sterile conditions after reconstitution.
- 6 months, -20 to -70 ºC under sterile conditions after reconstitution.

**BACKGROUND**

CCR5 is a G protein-linked seven transmembrane domain chemokine receptor. CCR5 serves as a receptor for several chemokines including MIP-1α, MIP-1β, MCP-2, and RANTES. It also functions as a coreceptor for Macrophage Tropic HIV-1 infection.

**References:**