**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Specifically stains human CCR5 transfectants but not the parental cell line as detected by flow cytometry. It has also been shown to react with a CCR5/CCR2 chimera (5222) containing the amino-terminal domain of CCR5. However, this antibody does not react with CCR5 present on unfixed stimulated human PBMCs by flow cytometry. For additional information regarding epitope specificity for this antibody and other R&D Systems anti-human CCR5 antibodies, see Lee, B. et al., 1999, J. Biol. Chem. 274:9617.

**Source**  
Monoclonal Mouse IgG2B Clone # 45502

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

**Immunogen**  
NS0 mouse myeloma cell line transfected with human CCR5

**Formulation**  
Lyophilized from a 0.2 μm filtered solution in PBS and NaCl 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>Sample</th>
<th>Concentration</th>
<th>Flow Cytometry</th>
<th>CyTOF-ready</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human CCR5 transfected cells</td>
<td>2.5 µg/10⁶ cells</td>
<td>Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.</td>
<td></td>
</tr>
</tbody>
</table>

**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 °C.

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt.
- -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C 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.