

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CCR1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse CCR4, 5, or 8 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 643854
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse CCR1 Extracellular regions (aa 1-34, aa 92-107, aa 172-192, aa 265-281) Accession # P51675
<b>Formulation</b>	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.

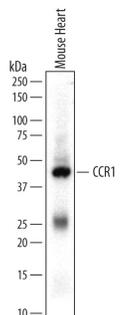
**APPLICATIONS**

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 µg/mL	See Below
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

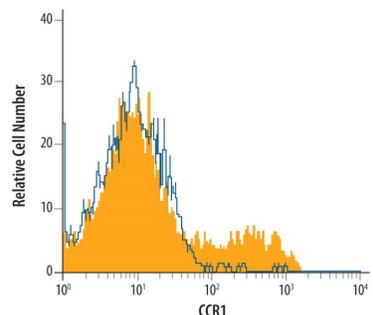
**DATA**

**Western Blot**



**Detection of Mouse CCR1 by Western Blot.** Western blot shows lysates of mouse heart tissue. PVDF membrane was probed with 2 µg/mL of Rat Anti-Mouse CCR1 Monoclonal Antibody (Catalog # MAB5986) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for CCR1 at approximately 43 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Flow Cytometry**



**Detection of CCR1 in RAW 264.7 Mouse Cell Line by Flow Cytometry.** RAW 264.7 mouse monocyte/macrophage cell line was stained with Rat Anti-Mouse CCR1 Monoclonal Antibody (Catalog # MAB5986, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Phycoerythrin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0105B).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

CCR1 (C-C chemokine receptor 1; also MIP-1a receptor and CD191) is a 43 kDa member of the GPCR #1 family of transmembrane proteins. Mouse CCR1 is expressed on osteoclasts, IL-13<sup>+</sup> T cells, neutrophils, bone marrow-derived mast cells, eosinophils, monocytes and vascular intimal smooth muscle cells. Multiple chemokines are reported to bind to CCR1. MIP-1a/CCL3 and RANTES/CCL5 are natural ligands, while CCL15, CCL9 and CCL23 are potent antagonists after N-terminal processing. Mouse CCR1 is a 7-transmembrane protein that is 355 amino acids (aa) in length. It contains a 34 aa N-terminal extracellular domain plus a 50 aa C-terminal cytoplasmic tail. Over aa sequences 1-34, 92-107, 172-192 and 265-281 collectively, mouse CCR1 shares 76% and 89% aa identity with human and rat CCR1, respectively.