Mouse CCR1 Antibody

Recombinant Monoclonal Rat IgG_{2B} Clone # 643854R

Catalog Number: MAB5986R

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCR1 in direct ELISAs.
Source	Recombinant Monoclonal Rat IgG_{2B} Clone # 643854R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived recombinant mouse CCR1 Extracellular regions (aa 1-34, aa 92-107, aa 172-192, aa 265-281) Accession # P51675
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.

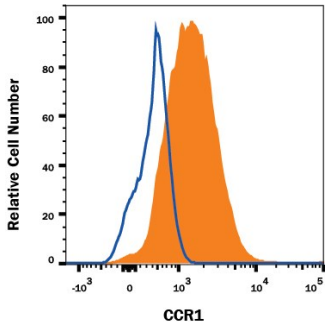
APPLICATIONS

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.*

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

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 # MAB5986R, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Phycoerythrin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0105B). 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 °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

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^+ 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 angonists 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.

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