



Monoclonal Rat IgG_{2B} Clone # 643854 Catalog Number: FAB5986P 100 TESTS, 25 TESTS

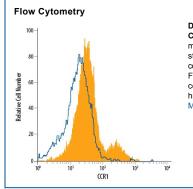
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse CCR1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mous CCR4, 5, or 8 is observed.		
Source	Monoclonal Rat IgG _{2B} Clone # 643854		
Purification	Protein A or G purified from hybridoma 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		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
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 Shee (SDS) for additional information and handling instructions.		

APPLICATIONS

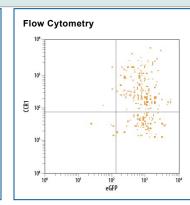
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 ⁶ cells	See Below

DATA



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 PEconjugated Monoclonal Antibody (Catalog # FAB5986P, filled histogram) or isotype control antibody (Catalog # IC013P, open histogram). View our protocol for Staining Membrane-associated Proteins.



Detection of CCR1 in L1.2 Mouse Cell Line Transfected with Mouse CCR1 and eGFP by Flow Cytometry. L1.2 mouse pro-B cell line transfected with mouse CCR1 and eGFP was stained with Rat Anti-Mouse CCR1 PE-conjugated Monoclonal Antibody (Catalog # FAB5986F). Quadrant markers were set based on control antibody staining (Catalog # IC013P). 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

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.

