Mouse CCR2 APC-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 475301

Catalog Number: FAB5538A

100 TESTS, 25 TESTS

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCR2 transfectants but not the parental cell line in flow cytometry. Does not detect HEK293 human embryonic kidney cell line transfected with mouse CCR5 in flow cytometry.
Source	Monoclonal Rat IgG_{2B} Clone # 475301
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	L1.2 mouse pro-B cell line transfected with mouse CCR2
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 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 Sheet (SDS) for additional information and handling instructions.

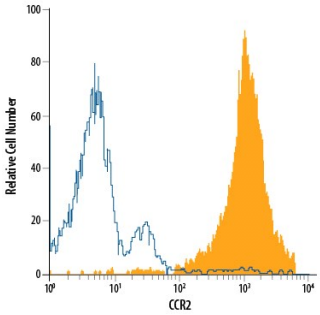
APPLICATIONS

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

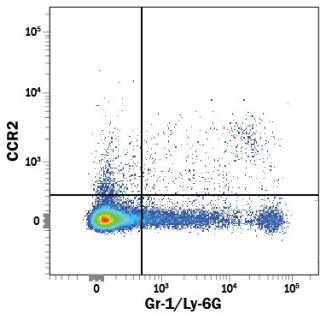
DATA

Flow Cytometry



Detection of CCR2 in L1.2 Mouse Cell Line Transfected with Mouse CCR2 by Flow Cytometry. L1.2 mouse pro-B cell line transfected with mouse CCR2 was stained with Rat Anti-Mouse CCR2 APC-conjugated Monoclonal Antibody (Catalog # FAB5538A, filled histogram) or isotype control antibody (Catalog # IC013A, open histogram). View our protocol for Staining Membrane-associated Proteins.

Flow Cytometry



Detection of CCR2 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse CCR2 APC-conjugated Monoclonal Antibody (Catalog # FAB5538A) and Rat Anti-Mouse Gr-1/Ly-6G Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB1037F). 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

CCR2, also known as CD192, is a 38 kDa 7TM chemokine receptor that preferentially binds CCL2, CCL7, and CCL13. CCR2 is expressed by multiple hematopoietic cells, endothelial cells, fibroblasts, neurons, and smooth muscle cells. It functions as an HIV fusion co-factor and facilitates T cell recruitment during inflammation. Two alternate splice forms (CCR2A and CCR2B) differ only by the addition of 14 amino acids to the intracellular carboxyl terminal. Mouse CCR2 shares 67% and 95% aa sequence identity with human and rat CCR2, respectively.

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