

DESCRIPTION

Species Reactivity	Rat
Specificity	Stains rat CCR2 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG _{2B} Clone # 890231
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with rat CCR2 Accession # O55193
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 Sheet (SDS) for additional information and handling instructions.

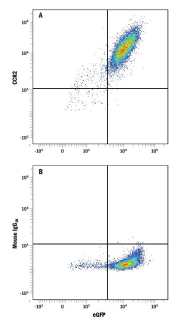
APPLICATIONS

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 μ L/10 ⁶ cells	See Below

DATA

Flow Cytometry



Detection of CCR2 in HEK293 Human Cell Line Transfected with Rat CCR2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with rat CCR2 and eGFP was stained with either (A) Mouse Anti-Rat CCR2 PE-conjugated Monoclonal Antibody (Catalog # FAB8368P) or (B) Mouse IgG_{2B} Phycoerythrin Isotype Control (Catalog # IC0041P). 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. <ul style="list-style-type: none"> 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. Rat CCR2 shares 95% aa sequence identity with mouse CCR2.