

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCR2 in immunocytochemistry.
Source	Monoclonal Rat IgG _{2A} Clone # 475303
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	L1.2 mouse pro-B cell line transfected with mouse CCR2
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.

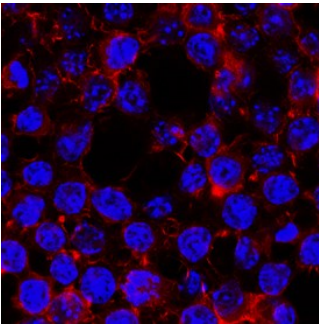
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



CCR2 in RAW 264.7 Mouse Cell Line.
CCR2 was detected in immersion fixed RAW 264.7 mouse monocyte/macrophage cell line using Rat Anti-Mouse CCR2 Monoclonal Antibody (Catalog # MAB55382) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

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. <ul style="list-style-type: none"> • 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

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.