Mouse CCR5 Antibody

Recombinant Monoclonal Rat IgG_{2B} Clone # 225307

Catalog Number: MAB18041

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCR5 transfectants but not the parental cell line in Flow Cytometry and Western blots.
Source	Recombinant Monoclonal Rat IgG_{2B} Clone # 225307
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	C6 rat glioma cell line transfected with mouse CCR5 Accession # P51682
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.

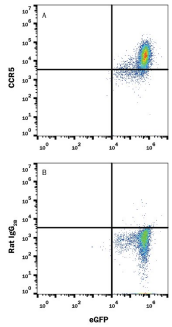
APPLICATIONS

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 CCR5 in HEK293 Human Cell Line Transfected with Mouse CCR5 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with mouse CCR5 and eGFP was stained with (A) Rat Anti-Mouse CCR5 Monoclonal Antibody (Catalog # MAB18041) or (B) Rat IgG2B isotype control antibody (Catalog # MAB0061) followed by PE-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

CCR5 (CC chemokine receptor 5; also CD195 and MIP-1a receptor) is a 41 - 44 kDa member of the G-protein coupled receptor #1 family of proteins. It is expressed on Treg cells, NK cells, neurons, macrophages and Th1 cells. CCR5 mediates cell adhesion and migration induced by several chemokines including CCL3/MIP-1α, CCL4/MIP-1β, CCL5/RANTES, and CCL8/MCP-2. It also functions as a coreceptor for macrophage-tropic HIV-1 infection. CCR5 contains an O-glycosylated and sulfated extracellular N-terminus (aa 1 - 32), and a phosphorylated and palmitoylated intracellular C-terminus (aa 304 - 354). CCR5 will form homodimers, heterodimers with CCR2, and heterooligomers with CCR2 and CXCR4. Within aa 1 - 32, mouse CCR5 shares 72% and 91% amino acid sequence identity with human and rat CCR5, respectively.

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