

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Mouse CCR5 and eGFP

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

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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