

DESCRIPTION

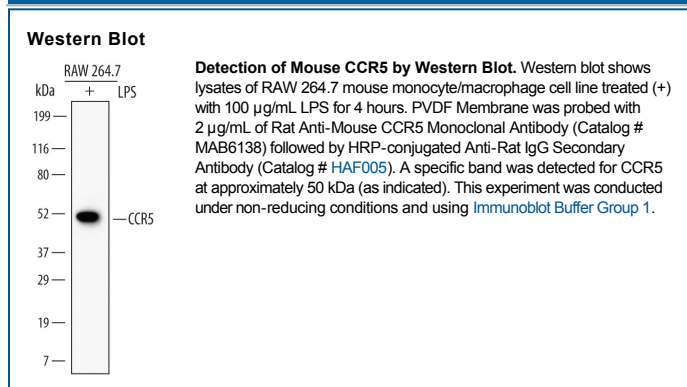
Species Reactivity	Mouse
Specificity	Detects CCR5 in direct ELISAs and Western blots. No cross-reactivity with recombinant mouse CCR1, 4, or 8 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 645807
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CCR5 Met1-Ala32 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 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.

Western Blot RAW 264.7 mouse monocyte/macrophage cell line treated with LPS under non-reducing conditions only

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

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.