

DESCRIPTION

Species Reactivity	Cotton Rat
Specificity	Detects cotton rat CCL3/MIP-1 α in direct ELISAs. In direct ELISAs, this antibody shows approximately 50% cross-reactivity with recombinant human CCL3/MIP-1 α and recombinant cotton rat CCL4/MIP-1 β and no cross-reactivity with recombinant cotton rat CCL5, r
Source	Monoclonal Mouse IgG _{2A} Clone # 175024
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant cotton rat CCL3/MIP-1 α Ala24-Ala92 Accession # AAL26704
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

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. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

MIP-1 α is a β family (CC) chemokine and has been designated CCL3. MIP-1 α and CCL4/MIP-1 β , two closely related but distinct proteins, were originally purified from medium conditioned by a LPS-stimulated murine macrophage cell line. Cotton rat CCL3 cDNA encodes a 92 amino acid (aa) precursor protein with a 23 aa putative signal peptide. Mature cotton rat CCL3 shares approximately 70% amino acid identity with human CCL3. CCL3 is expressed in a wide variety of cells, including lymphocytes, fibroblasts, epithelial cells, and monocytes/macrophages. CCL3 has been shown to play an important role in the recruitment of mononuclear cells. Additionally, CCL3 has been reported to have chemoattractant and adhesive effects on lymphocytes, preferentially promoting the chemotaxis of Th1 cells. CCL3 has also been shown to attract B cells, eosinophils, and dendritic cells. In addition, CCL3 augments cytolytic activity of NK cells (1). CCL3 has been identified as a stem cell inhibitory factor that can inhibit the proliferation of hematopoietic stem cells *in vitro* as well as *in vivo*. It has been demonstrated that CCL3 can bind the chemokine receptors CCR1 and CCR5 (2).

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