

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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).

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.