

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse CCL22/MDC in direct ELISAs and Western blots. Shows 12% cross-reactivity with recombinant human (rh) CCL22 and recombinant mouse (rm) MIP-3α, 25% cross-reactivity with rmCTACK, 6% cross-reactivity with rhBLC/BCA-1, and no cross-reactivity with rhMIP-1α. |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 158113                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse CCL22/MDC<br>Gly25-Ser92<br>Accession # O88430                                                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | 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.

**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

Mouse ABCD-1, the mouse orthologue of the human macrophage-derived chemokine (MDC)/stimulated T cell chemotactic protein (STCP-1), is a CC chemokine cloned from activated mouse B cells. Mouse MDC cDNA encodes a precursor protein of 92 amino acid (aa) residues with a 24 aa residue predicted signal peptide that is cleaved to yield a 68 aa residue mature 7.8 kDa protein. At the amino acid sequence level, mouse and human MDC share 64% identity and 83% similarity. The genomic organization of the mouse and human MDC genes are very similar, exhibiting sequence identity at the intron-exon boundaries. Mouse MDC is expressed at high levels in dendritic cells and activated B lymphocytes. Low levels of mouse MDC mRNA are also detectable in lung, unstimulated spleen cells, lymph node cells and in thymocytes. MDC is a functional ligand for the CC chemokine receptor 4. Recombinant or chemically synthesized mature mouse MDC has been shown to induce chemotaxis or Ca<sup>2+</sup> mobilization in activated mouse and human T cells.

## 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.