

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL22/MDC in direct ELISAs and Western blots. Shows 12% cross-reactivity with recombinant human (rh) CCL22 and recombinant mouse (rm) MIP-3 α , 25% cross-reactivity with rmCTACK, 6% cross-reactivity with rhBLC/BCA-1, and no cross-reactivity with rcrMIP-1 α , rhMIP-1 α , rmMIP-1 α , rcrMIP-1 β , rmMIP-1 β , rhMIP-1 β rhPARC, rcrRANTES, rhRANTES, rmRANTES, rhTARC, or rmTARC,
Source	Monoclonal Rat IgG _{2A} Clone # 158113
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CCL22/MDC Gly25-Ser92 Accession # O88430
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	Recombinant Mouse CCL22/MDC (Catalog # 439-MD)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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

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 Ca²⁺ mobilization in activated mouse and human T cells.

References:

1. Schaniel, C. *et al.* (1998) *J. Exp. Med.* **188**:451.
2. Imai, T. *et al.* (1998) *J. Biol. Chem.* **273**:1764.
3. Godiska, R. *et al.* (1997) *J. Exp. Med.* **185**:1595.
4. Chang, M-S. *et al.* (1997) *J. Biol. Chem.* **272**:25229.