

DESCRIPTION

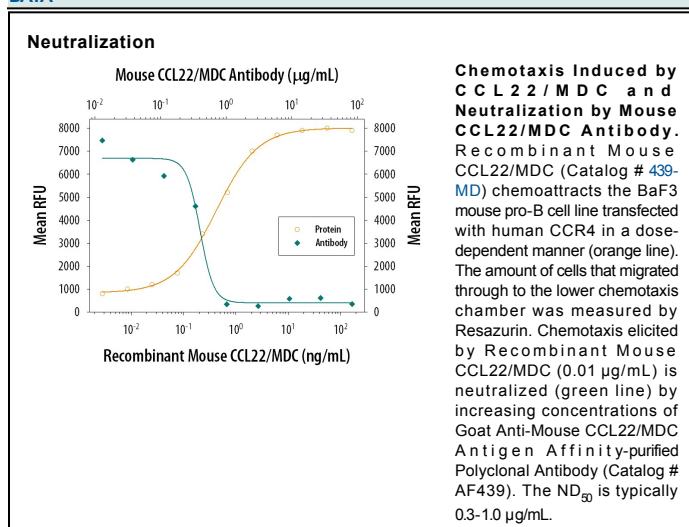
Species Reactivity	Mouse
Specificity	Detects mouse CCL22/MDC in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human CCL22/MDC is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CCL22/MDC Gly25-Ser92 Accession # Q9QZU2
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse CCL22/MDC (Catalog # 439-MD)
Neutralization		Measured by its ability to neutralize CCL22/MDC-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR4. The Neutralization Dose (ND ₅₀) is typically 0.3-1.0 µg/mL in the presence of 0.01 µg/mL Recombinant Mouse CCL22/MDC.

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped with polar packs. 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.