**DESCRIPTION**

**Species Reactivity**  Mouse
d
**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-3α, 25% cross-reactivity with rmCTACK, 6% cross-reactivity with rhBLC/BCA-1, and no cross-reactivity with rcrMIP-1α, rmMIP-1α, rmMIP-1β, MIP-1β, rhPARC, rcrRANTES, rhMIP-1α, rhMIP-1β, rmMIP-1α, rmMIP-1β, rhRANTES, or rmTARC.

**Source**  Monoclonal Rat IgG2A Clone # 158113

**Purification**  Protein A or G purified from hybridoma culture supernatant

**Immunogen**  E. coli-derived recombinant mouse CCL22/MDC Gly25-Ser92 Accession # O88430

**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. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or 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.

<table>
<thead>
<tr>
<th>Western Blot</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Recommended Concentration</td>
<td>Sample</td>
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<tr>
<td>1 μg/mL</td>
<td>Recombinant Mouse CCL22/MDC (Catalog # 439-MD)</td>
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**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.
- 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:**