



# Anti-Mouse MDC

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-P66</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant murine MDC. Anti-murine MDC specific antibody was purified by affinity chromatography employing immobilized murine MDC matrix.

## Target Background

<b>Synonyms (Target):</b>	Ccl22; MDC; DCBCK; ABCD-1; Scya22
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Mouse MCD, 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.

### Database References Target

<b>Protein RefSeq:</b>	NP_033163.1
<b>Uniprot ID:</b>	O88430
<b>mRNA RefSeq:</b>	NM_009137.2

## Product Specifications

<b>Species reactivity</b>	Mouse
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant Mouse MDC
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

#### Western Blot:

To detect murine MDC by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant murine MDC is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

#### Neutralization:

To yield one-half maximal inhibition [ND50] of the biological activity of murine MDC (100 ng/ml), a concentration of 6-9 µg/ml of this antibody is required.

#### ELISA:

To detect murine MDC by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant murine MDC.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**