

## TECHNICAL DATA SHEET

### Purified Rabbit Anti-rat MDC

**Catalog Number:** TP238

**Lot Number:**

**Content:** Protein A purified rabbit IgG, 200 µg, with 0.1% sodium azide, lyophilized.

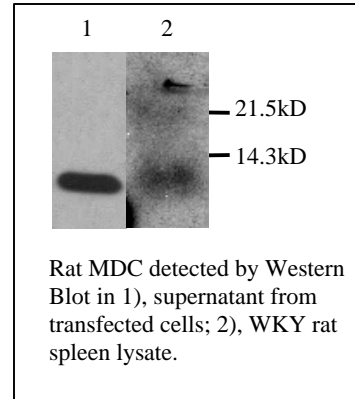
(Reconstitute to 1 mg/ml by adding 200 µl PBS)

**Product Description and Usage:** For research use only. This polyclonal antibody, which reacts with rat MDC, was generated using *E. coli*-expressed rat MDC as an immunogen. The tested titer for Western blot is 1:2,000.

Cross-reactivity to MDC of other species has not been determined.

**Storage Condition:** 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

**Background:** MDC (macrophage-derived chemokine) is a 69-amino acid CC chemokine with an NH<sub>2</sub>-terminal sequence of 24 residues as a signal sequence. It was originally cloned from human monocyte-derived macrophages<sup>1</sup>. Recombinant MDC attracts monocyte-derived dendritic cells, activated lymphocytes and natural killer cells<sup>1,2</sup>. MDC has anti-HIV-1 activity<sup>2</sup>.



Expression of MDC mRNA in macrophages is enhanced by LPS, IL-1β and TNFα<sup>3</sup>. MDC is a functional ligand for CCR4<sup>4</sup>.

#### References:

1. Godiska, R. et al (1997) Human macrophage-derived chemokine (MDC), a novel chemoattractant for monocytes, monocyte-derived dendritic cells, and natural killer cells. *J Exp Med* 185:1595-1604
2. Pal, R. et al. (1997) Inhibition of HIV-1 infection by the beta-chemokine MDC. *Science* 278:695-698
3. Rodenburg, R.J. (1998) Expression of macrophage-derived chemokine (MDC) mRNA in macrophages is enhanced by interleukin-1beta, tumor necrosis factor alpha, and lipopolysaccharide. *J Leukoc Biol* 63:606-611
4. Imai, T. et al. (1998) Macrophage-derived chemokine is a functional ligand for the CC chemokine receptor 4. *J Biol Chem* 273: 1764-1768