

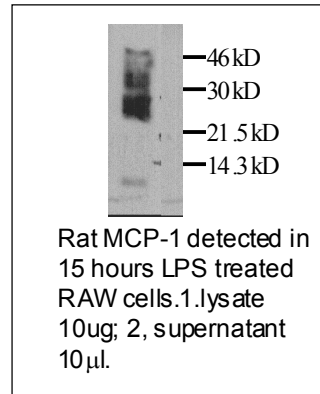
**Purified Rabbit Anti-rat MCP-1/1-73**

**Catalog Number:** TP209

**Lot Number:** 090416

**Content:** Protein A purified rabbit IgG, 500 µg, with 0.1% sodium azide, lyophilized.

(Reconstitute to 1 mg/ml by adding 500 µl PBS)



**Product Description and Usage:** For research use only. This neutralizing polyclonal antibody, which reacts with both mouse JE and rat MCP-1, was generated using *E. coli*-expressed N-terminal amino acid 1-73 of rat MCP-1 as an immunogen. The tested titer for Western blot is 1:2,000.

Cross-reactivity to MCP-1 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:** Rat MCP-1/JE (monocyte chemoattractant protein-1) is an 148-amino acid CC chemokine with a NH<sub>2</sub>-terminal sequence of 29 residues as a signal sequence. It was originally cloned from Con A-stimulated rat spleen cDNA library<sup>1</sup>. This rat MCP-1/JE is 49-amino acid longer than human MCP-1 at 3'-end. This 3'-end is a serine and threonine rich zone, which is probably

responsible for the extensive O-glycosylation and which explains for the higher molecular weight (25 kDa)<sup>2</sup>. In vitro, MCP-1/JE is chemotactic for monocytes as well as lymphocytes and basophils, but not for neutrophils. MCP-1/JE is produced by a wide range of cell types as a reaction to diverse inflammatory stimuli<sup>3</sup>.

**References:**

1. Yoshimura, T. et al. (1991) Molecular cloning of rat monocyte chemoattractant protein-1 (MCP-1) and its expression in rat spleen cells and tumor cell lines. *Biochem. Biophys. Res. Commun.* 174:504-509
2. Rollins, B.J. et al (1989) The human homolog of the JE gene encodes a monocyte secretory protein. *Mol Cell Biol* 9:4687
3. Haelens, A. et al. (1996) Leukocyte migration and activation by murine chemokines. *Immunobiol* 195:499-521