

TECHNICAL DATA SHEET

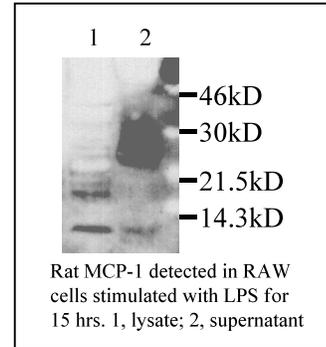
Purified Rabbit Anti-rat MCP-1

Catalog Number: TP216

Lot Number: 010314

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

(Reconstitute to 1 mg/ml by adding 500 µl H₂O)



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 rat MCP-1 as an immunogen. This antibody can be used for Western blot (1:2,000), immunohistochemistry (1:200)^{1, 2}, and neutralizing.³

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 a 148-amino acid CC chemokine with a NH₂-terminal sequence of 29 residues as a signal sequence. It was originally cloned from Con A-stimulated rat spleen cDNA library. 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 explains for the higher molecular weight (25 kDa). 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.

References:

1. Anita M. Geppert. Constitutive patterns of RANTES, MCP-1 and MIP-1 α expression at the mRNA and protein level during postnatal development of the rat brain. *Folia Neuropathol.* Vol. 41, No. 2, pp. 79–88, 2003
2. Thomas Tschernig, et al. Lipopolysaccharide induced inflammation in the perivascular space in lungs. *Journal of Occupational Medicine and Toxicology* 2008, 3:17
3. Adamus G, et al. Expression of CC chemokines and their receptors in the eye in autoimmune anterior uveitis associated with EAE. *Invest Ophthalmol Vis Sci* 2001 Nov;42(12):2894-903

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