



Anti-Rat MCP-1 (MCAF)

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	104-P08
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant Rat MCP-1(MCAF). Anti-Rat MCP-1(MCAF) specific antibody was purified by affinity chromatography employing immobilized Rat MCP-1(MCAF) matrix.

Target Background

Synonyms (Target):	Accn1; MDEG1; MDEG2
---------------------------	---------------------

CCL2, also known as JE or MCP1 (monocyte chemoattractant protein1), is a CC chemokine produced by fibroblasts, macrophages, astrocytes, mast cells, endothelial cells and osteoblasts. It functions as a chemoattractant through ligations with CCR2 on monocytes, macrophages and lymphocytes.

Database References Target

Protein RefSeq:	NP_113718.1
Uniprot ID:	P14844
mRNA RefSeq:	NM_031530.1

Product Specifications

Species reactivity	Rat
Clone/Ab feature	Rabbit IgG
Cross reactivity	Rat
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant Rat MCP-1/MCAF
Formulation	lyophilized from PBS
Reconstitution buffer	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

Neutralization:

To yield one-half maximal inhibition [ND₅₀] of the biological activity of Rat MCP-1(MCAF) (100 ng/ml), a concentration of 4.0-6.0 µg/ml of this antibody is required.

Sandwich ELISA:

To detect Rat MCP-1/MCAF by sandwich ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 - 2 mg/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 Rat MCP-1/MCAF.

Western Blot:

To detect Rat MCP-1/MCAF by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 mg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Rat MCP-1/MCAF is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

IHC:

This antibody stained colchicine injected rat brain (including the caudate putamen) tissue. The primary antibody was incubated at 1.0 µg/ml overnight at 4°C. This was followed by a peroxidase conjugated secondary antibody and then a fluorescein Tyramide Signal Amplification (TSA™) reagent. Optimal concentrations and conditions may vary.

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