

**MCP-1 Antibody**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M	Endogenous	11-13, 20-30	Rabbit	#P10148	20296

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

MCP-1 Antibody detects endogenous levels of total mouse MCP-1 protein.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys75 of mouse MCP-1. Antibodies were purified by protein A and peptide affinity chromatography.

**Background**

Monocyte chemoattractant protein-1 (MCP-1), also known as CCL2, monocyte chemotactic activating factor (MCAF) or glioma-derived chemotactic factor-2 (GDCF-2), is the product of the human *JE* gene and a member of the family of C-C (or  $\beta$ ) chemokines (1-4). The predicted molecular weight of MCP-1 protein is 11-13 kDa, but it may migrate at 20-30 kDa due to glycosylation. MCP-1 is secreted by a variety of cell types in response to pro-inflammatory stimuli and was originally described for its chemotactic activity on monocytes. This activity has led to studies demonstrating its role in diseases characterized by monocyte infiltrates such as psoriasis (5), rheumatoid arthritis (6) and atherosclerosis (7). MCP-1 may also contribute to tumor progression and angiogenesis (8). Signaling by MCP-1 is mediated by the G protein-coupled receptor CCR2 (9).

**Background References**

1. Matsushima, K. et al. (1989) *J Exp Med* 169, 1485-90.
2. Furutani, Y. et al. (1989) *Biochem Biophys Res Commun* 159, 249-55.
3. Robinson, E.A. et al. (1989) *Proc Natl Acad Sci USA* 86, 1850-4.
4. Rollins, B.J. et al. (1988) *Proc Natl Acad Sci USA* 85, 3738-42.
5. Gillitzer, R. et al. (1993) *J Invest Dermatol* 101, 127-31.
6. Koch, A.E. et al. (1992) *J Clin Invest* 90, 772-9.
7. Ylä-Herttuala, S. et al. (1991) *Proc Natl Acad Sci USA* 88, 5252-6.
8. Salcedo, R. et al. (2000) *Blood* 96, 34-40.
9. Charo, I.F. et al. (1994) *Proc Natl Acad Sci USA* 91, 2752-6.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**M:** Mouse

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