



Mouse Anti-Human MCP-1 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human MCP-1

Clone No.: S101

Catalogue No.: MO-C40021D

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human Monocyte Chemotactic Protein-1 (MCP-1)/ Monocyte Chemotactic and Activating Factor (MCAF)

Storage: Store at -20°C.

Research Area: Cytokine, chemotaxis and inflammation

Purification: Protein G affinity purified

Background: Monocyte chemotactic and activating factor (MCAF) is also called monocyte chemotactic protein-1 (MCP-1) and chemokine (C-C motif) ligand 2 (CCL2). It is primarily secreted by monocytes, macrophages and dendritic cells. This cytokine displays chemotactic activity for monocytes, T-cells, and basophils, but not for neutrophils or eosinophils. MCAF causes the degranulation of basophils and mast cells, and augments the activity of monocyte and macrophage. MCAF plays an important role in inflammation, angiogenesis, auto-immune diseases, renal diseases, chronic infection and granuloma formation.

Product Type: **Detection** antibody in matched antibody pair.

Target Protein: Human MCP-1

Immunogen: Purified recombinant human MCP-1

Fusion Myeloma: Sp2/0-Ag14

Specificity: This antibody reacts with natural and recombinant human MCP-1.

Species Reactivity: Human, others not tested

Cross-reactivity: This antibody does not react with human interleukin-8 (IL-8) and other human cytokines tested such as interleukin-1 β (IL-1 β), serum amyloid A (SAA) and epidermal growth factor (EGF).

Applications: **ELISA:** The antibody can be used for quantitative detection of human MCP-1 in sandwich ELISA in combination with capture antibody S14 (MO-C40021B).

Host / Isotype: Mouse, IgG1 Kappa

Western Blot: 0.1 μ g/lane of recombinant human MCP-1 can be detected when antibody is used at 0.1-1 μ g/mL.

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Neutralizing: The antibody at a concentration of 0.5 μ g/mL, neutralized 1nM recombinant human

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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MCP-1 induced monocyte chemotaxis in blind well chemotaxis chambers.

References:

1. Randolph, G. J. and Furie, M. B. A soluble gradient of endogenous monocyte chemoattractant protein-1 promotes the transendothelial migration of monocytes in vitro. J. Immunol. 1995 **155**:3610-3618.
2. Gwendalyn J. Randolph and Martha B. Furie. Mononuclear phagocytes egress from an in vitro model of the vascular wall by migrating across endothelium in the basal to apical direction: role of intercellular adhesion molecule 1 and the CD11/CD18 integrins. J Exp Med. Feb 1, 1996; 183(2): 451-462.
3. Mehrdad Baghestanian et al. The c-kit Ligand Stem Cell Factor and Anti-IgE Promote Expression of Monocyte Chemoattractant Protein-1 in Human Lung Mast Cells. Blood. December 1, 1997 vol. 90 no. 11 4438-4449.

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