



ANOGENT - A Division of YES Biotech Laboratories Ltd.

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Mouse Anti-Human MCP-1 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human MCP-1

Clone No.: S14

Catalogue No.: MO-C40021B

Quantity: 0.5 mg/vial

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

Purification: Protein G affinity purified

Product type **Capture** antibody in matched antibody pair.

Target Protein: Human MCP-1

Immunogen: Purified recombinant human MCP-1

Fusion Sp2/0-Ag14

Myeloma:

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

Species Human, others not tested

Reactivity:

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).

Host / Isotype: Mouse, IgG1 Kappa

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

Storage: Store at -20°C

Research Area: Cytokine, chemotaxis, inflammation

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 displayed 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.

Applications: **ELISA:** This antibody can be used as a capture antibody in sandwich ELISA for human MCP-1 detection in combination with anti-MCP-1 clone 101(MO-C40021D)-derived tracer/detection antibody (HRP-conjugated, Cat. No.: MO-C40021T or Biotin-conjugated, Cat. No.: MO-C40021TB). Approximately 1.5pg/mL of MCP-1 in serum/plasma or 4pg/mL of MCP-1 in medium can be detected with an assay range of 0-1600pg/mL.

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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Neutralizing: The antibody (clone S14) at a concentration of 0.5µg/mL, neutralized 1nM recombinant human MCP-1 induced monocyte chemotaxis in blind well chemotaxis chambers. It was also found that S-14 could inhibit the activity of native MCP-1 at concentrations similar to inhibitory doses for recombinant MCP-1.

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

References:

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.

If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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