



Biotin Conjugated Mouse Anti-Human MCP-1 Monoclonal Antibody Datasheet

Product Name: Biotin conjugated mAb anti-Human MCP-1 **Clone No.:** S101

Catalogue No.: MO-C40021TB **Quantity:** 0.1 mL/vial

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

Purification: Protein G affinity purified

Product Type: Tracer antibody in matched antibody pair. biotin conjugated

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).

Host / Isotype: Mouse, IgG1 Kappa

Storage Buffer Formulation: 0.01M PBS, pH 7.2 in 1% gelatin and 0.1% proclin-300

Storage: Store at -20°C. Avoid repeated freeze and thaw cycles.

Research Area: Cytokine, chemotaxis and 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 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.

Applications: **ELISA:** In combination with capture antibody S14 (Cat. No.: MO-C40021B) and avidin-HRP conjugate, this biotin conjugated antibody can be used as tracer for detection of human MCP-1 in sandwich ELISA

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

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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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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