

# Product Data Sheet

## Biotin anti-human MCP-1

**Catalog # / Size:** 502608 / 50 µg  
502609 / 500 µg

**Clone:** 5D3-F7

**Isotype:** Mouse IgG1, κ

**Immunogen:** Recombinant human MCP-1

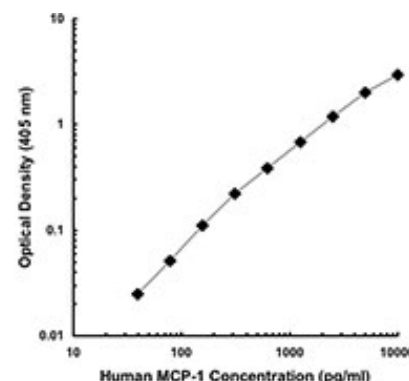
**Reactivity:** Human, **Cross-Reactivity\*:** Cynomolgus, Rhesus

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



## Applications:

**Applications:** ELISA Detection, ELISPOT Detection, ICFC

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.5-2 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of MCP-1 recombinant protein ranging from 2000 to 15 pg/ml are recommended for each ELISA plate. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10<sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** **ELISA or ELISPOT Detection<sup>1</sup>:** The biotinylated 5D3-F7 antibody is useful as the detection antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified 2H5 antibody (Cat. No. 505902/505906) as the capture antibody.

**ELISA or ELISPOT Capture:** The purified 5D3-F7 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated 2H5 antibody (Cat. No. 505908) as the detection antibody. The LEAF™ purified antibody (Cat. No. 502607) is suggested for ELISPOT capture.

**Additional reported applications (for the relevant formats) include:** intracellular flow cytometry<sup>2</sup>, immunoprecipitation<sup>1,3</sup>, Western blotting<sup>1</sup>, and immunohistochemical staining<sup>1</sup>.

**Application References:**

1. Peri, G., et al. 1994. *J. Immunol. Meth.* 174:249.
2. Rezaie-Majd, A., et al. 2002. *Arterioscler Thromb Vasc Biol.* 22:1194.
3. Hirsch, A., et al. 1999. *J. Virol.* 73:404.

**Description:** Monocyte chemoattractant protein-1 (MCP-1) also known as monocyte chemoattractant and activating factor (MCAF) was identified based on its ability to chemoattract monocytes. Subsequently, MCP-1 has also been found to regulate adhesion molecule expression and cytokine production in monocytes. MCP-1 is identical to the product of the JE gene, a PDGF inducible gene. MCP-1 is a member of the beta (C-C) chemokine subfamily, known as CCL2. The 5D3-F7 antibody reacts with human monocyte chemoattractant protein-1 (MCP-1).

**Antigen References:**

1. Fitzgerald, K., et al. Eds. 2001. *The Cytokine FactsBook*. Academic Press, San Diego.
2. Bischoff, S., et al. 1992. *J. Exp. Med.* 175:1271.
3. Charo, I., et al. 1994. *P. Natl. Acad. Sci. USA* 91:2752.
4. Jiang, Y., et al. 1992. *J. Immunol.* 148:2423.

### Related Products:

**Product**  
Purified anti-mouse/rat/human MCP-1  
Recombinant Human MCP-1  
HRP Avidin  
TMB Substrate Reagent Set  
ELISA Assay Diluent (5X)

**Clone**  
2H5

Avidin

### Application

ELISA Capture, IHC, WB  
BA, ELISA  
ELISA, ELISPOT, IHC, WB  
ELISA  
ELISA



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