

Product Data Sheet

LEAF™ Purified anti-human MCP-1

Catalog # / Size: 502606 / 50 µg
502607 / 500 µg

Clone: 5D3-F7

Isotype: Mouse IgG1, κ

Immunogen: Recombinant human MCP-1

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

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: ELISA Capture - *Quality tested*
ELISPOT Capture, ICFC, IHC, IP, Neut, WB - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 2-8 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of MCP-1 recombinant protein ranging from 2000 to 31.3 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA or ELISPOT Detection¹:** 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 cytometry², immunoprecipitation^{1,3}, Western blotting¹, and immunohistochemical staining¹.

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 chemotactic protein-1 (MCP-1) also known as monocyte chemotactic 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**
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl
Recombinant Human MCP-1

Clone
MOPC-21

Application
FC, ICFC, WB, IP, ICC, IF, FA
BA, ELISA



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