

Product Data Sheet

LEAF™ Purified anti-mouse/rat/human MCP-1

Catalog # / Size: 505905 / 50 µg

505906 / 500 µg

Clone: 2H5

Isotype: Armenian Hamster IgG

Immunogen: CHO-expressed, recombinant mouse MCP-1 Reactivity: Mouse, Rat, Human, Cross-Reactivity: 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

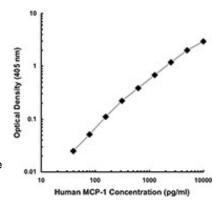
preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the

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, Neut, WB, IHC - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by ELISA analysis. For ELISA capture applications, a concentration

range of 5-10 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.

Application Notes: ELISA or ELISPOT Capture¹: The purified 2H5 antibody is useful as the capture antibody in a sandwich ELISA or

ELISPOT assay, when used in conjunction with the biotinylated 4E2/MCP antibody (Cat. No. 506002) as the detecting antibody for the detection of mouse MCP-1. The purified 2H5 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated 5D3-F7 antibody (Cat. No. 502609) as the detecting antibody for the detection of human MCP-1. The LEAF™ purified antibody is suggested for ELISPOT

capture.

Flow Cytometry²: The fluorochrome-labeled 2H5 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify MCP-1 -producing cells within mixed cell populations. For intracellular cytokine

staining protocol, please visit www.biolegend.com and click on the support section. **Neutralization**^{1,4,6}: The LEAF™ purified antibody (Endotoxin in vivo and *in vitro* (Cat. No. 505906).

Additional reported applications (for the relevant formats) include: Western blotting³, immunohistochemistry⁵ of

paraformaldehyde-fixed, saponin-treated frozen tissue sections.

Application References: 1. Luo, Y., et al. 1994. J. Immunol. 153:3708. 2. Zhang, Y., et al. 2002. J. Immunol. 168:3088.

3. Luo, Y., et al. 1999 J. Immunol. 163:3985.

4. Morrison, B. E., *et al.* 2003 *J. Clin. Invest.* 112:1862. 5. Hancock, W. W., *et al.* 1997 *Transplantation* 64:696.

6. Yu, R., et al. 2006 Obesity 14:1353.

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 2H5 antibody reacts with mouse, rat, and human MCP-1. The 2H5 antibody can neutralize the bioactivity of natural or

recombinant MCP-1.

Antigen References: 1. Fitzgerald, K., et al. Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.

Bischoff, S., et al. 1992. J. Exp. Med. 175:1271.
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 Clone Application

Recombinant Mouse MCP-1 BA, ELISA

LEAF™ Purified Armenian Hamster IgG Isotype Ctrl **HTK888** FC, ICFC, WB, IP, ICC, IF, FA



