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Product Data Sheet

PE anti-mouse/rat/human MCP-1

Catalog # / Size: 505903 / 25 µg
505904 / 100 µg

Clone: 2H5

Isotype: Armenian Hamster IgG

Immunogen: CHO-expressed, recombinant mouse MCP-1

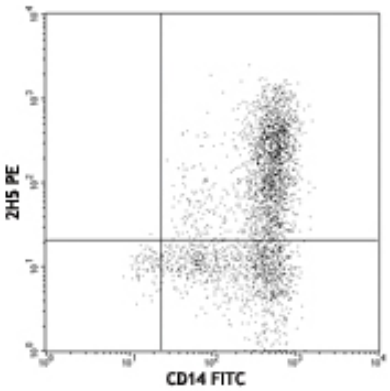
Reactivity: Mouse, Rat, Human, **Cross-Reactivity:** Rhesus

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

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

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



LPS-stimulated human peripheral blood monocytes were surface stained with CD14 FITC and then intracellular stained with 2H5 PE

Applications:

Applications: ICFC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining by flow cytometry, the suggested use of this product is ≤ 0.5 µg per 106 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA or ELISPOT Capture[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 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 Cytometry[2]: 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 blotting[3], immunohistochemistry[5] 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.
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	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
Fixation Buffer		ICC, ICFC
Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC
Brefeldin A Solution (1,000X)		ICFC
Monensin Solution (1,000X)		ICFC
RBC Lysis Buffer (10X)		FC, ICFC
PE Armenian Hamster IgG Isotype Ctrl	HTK888	FC, ICFC

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