

Product Data Sheet

Purified anti-mouse MCP-1

Catalog # / Size: 506003 / 50 µg
506004 / 500 µg

Clone: 4E2/MCP

Isotype: Armenian Hamster IgG

Immunogen: CHO-expressed, recombinant mouse MCP-1

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

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.

Applications:

Applications: ELISA Capture - *Quality tested*
WB - *Reported in literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA capture antibody, a concentration range of 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of MCP-1 recombinant protein ranging from 1000 to 8 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 Capture:** The purified 4E2/MCP 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 detecting antibody for the detection of mouse MCP-1. The LEAF™ purified antibody is suggested for ELISPOT capture. **Additional reported applications (for the relevant formats) include:** Western blotting¹. The 4E2/MCP is a non-neutralizing antibody¹.

Application References: 1. Luo Y, *et al.* 1994. *J. Immunol.* 153:3708.
2. Luo Y, *et al.* 1999 *J. Immunol.* 163:3985.

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 4E2/MCP antibody reacts with mouse MCP-1. This antibody does not react with human MCP-1 and related mouse beta chemokines, TCA3 and MIP-1beta. The 4E2/MCP antibody can not 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
HRP Streptavidin		ELISA, ELISPOT, IHC, WB
TMB Substrate Reagent Set		ELISA
ELISA Assay Diluent (5X)		ELISA



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