

Anti-CCL2 (MCP-1) Functional Grade Purified

Catalog Number: 16-7096

Also Known As: MCP1, MCAF, CCL-2

RUO: For Research Use Only

Product Information

Contents: Anti-CCL2 (MCP-1) Functional Grade Purified

 **Catalog Number:** 16-7096

Clone: 2H5

Concentration: 1 mg/ml

Host/Isotype: Armenian Hamster IgG

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

Description

The 2H5 monoclonal antibody reacts with mouse, rat, and human monocyte chemoattractant protein-1 (MCP-1), also known as CCL2 and MCAF.

Applications Reported

The 2H5 antibody has been reported for use in ELISA, intracellular staining for flow cytometric analysis, and cytokine neutralization. (Please use Functional Grade purified 2H5 antibody, cat. 16-7096, in functional assays.)

Applications Tested

The Functional Grade purified 2H5 antibody has been tested by ELISA for verification of reactivity and by LAL assay for verification of low endotoxin. The 2H5 antibody has been published for use in vitro and in vivo for neutralization of MCP-1 activity.

Mouse MCP-1 ELISA: The biotinylated 2H5 antibody has been tested as the detection antibody in a sandwich ELISA for analysis of mouse MCP-1 in combination with the affinity purified 4E2/MCP (14-7091) antibody for capture and recombinant mouse MCP-1 as the standard. A suitable range of concentrations of this antibody for ELISA detection is 0.5-2.0 µg/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/ml - 15 pg/ml should be included in each ELISA plate.

Human MCP-1 ELISA: The biotinylated 2H5 antibody has been tested as the detection antibody in a sandwich ELISA for analysis of human MCP-1 in combination with the affinity purified 5D3-F7 (14-7099) antibody for capture and recombinant human MCP-1 as the standard. A suitable range of concentrations of this antibody for ELISA detection is 0.5-2.0 µg/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/ml - 15 pg/ml should be included in each ELISA plate.

The fluorochrome-conjugated 2H5 antibody has been tested for intracellular staining and flow cytometric analysis of mouse, rat, and human cells. The fluorochrome-conjugated 2H5 antibody is offered in 2 formats:

- µg size: has been tested by intracellular staining and flow cytometric analysis and can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.
- test size: has been pre-titrated and tested by intracellular staining and flow cytometric analysis and can be used at 20 µl per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

Luo, Y., et al. 1994. J Immunol. 153: 3708. [Antibody generation, ELISA, immunoblotting, in vitro neutralization]

Morrison, B., et al. 2003. J. Clin. Invest. 112: 1862. [In vivo neutralization]

Taal MW, Chertow GM, et al. 2001. Mechanisms underlying renoprotection during renin-angiotensin system blockade. Am J Physiol Renal Physiol. 280(2):F343-55. (2H5, IHC frozen in rat, PubMed)

Luo Y, Fischer FR, et al. 2000. Macrophage inflammatory protein-2 and KC induce chemokine production by mouse astrocytes. J Immunol. 165(7):4015-23. (2H5, IHC frozen, PubMed)

Related Products

16-4888 Armenian Hamster IgG Isotype Control Functional Grade Purified (eBio299Arm)

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com