

Anti-Human CCL2 (MCP-1) Purified

Catalog Number: 14-7099

Also Known As: MCP1, MCAF, CCL-2

RUO: For Research Use Only

Product Information

Contents: Anti-Human CCL2 (MCP-1) Purified


 Catalog Number: 14-7099

Clone: 5D3-F7


Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The 5D3-F7 antibody reacts with human, cynomolgus, and rhesus monkey monocyte chemoattractant protein-1 (MCP-1), also known as monocyte chemotactic and activating factor (MCAF) and CCL2. MCP-1 is a CC chemokine which presents as a dimer. Derived from monocytes and vascular endothelial cells, it exerts chemoattractant activity on a variety of cell types, such as monocytes, basophils, T cells and NK cells via chemokine receptors such as CCR2, CCR5, and CCR10.

Applications Reported

The 5D3-F7 antibody has been reported to be useful for detection of MCP-1 in a sandwich ELISA, neutralization of MCP-1 bioactivity, intracellular staining for flow cytometric analysis, IP, and immunohistochemical staining of frozen tissue sections.

Applications Tested

The affinity purified 5D3-F7 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human MCP-1 in combination with the biotinylated 2H5 (13-7096) antibody for detection and recombinant human MCP-1 as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 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 Functional Grade purified 5D3-F7 antibody has been tested for neutralization of MCP-1 bioactivity.

References

Peri, G., C. Milanese, C. Matteucci, C., L. Ruco, D. Zhou, S. Sozzani, I. Coletta, and A. Mantovani. 1994. A new monoclonal antibody (5D3-F7) which recognizes human monocyte-chemotactic protein-1 but not related chemokines. Development of a sandwich ELISA and in situ detection of producing cells. *J. Immunol. Meth.* 174: 249-257. (5D3-F7, ELISA, WB, IHC frozen),

Karrer S, Bosserhoff AK, et al. 2005. The -2518 promotor polymorphism in the MCP-1 gene is associated with systemic sclerosis. *J Invest Dermatol.* 124(1):92-8. (5D3-F7, IHC paraffin, PubMed)

Piemonti L, Leone BE, et al. 2002. Human pancreatic islets produce and secrete MCP-1/CCL2: relevance in human islet transplantation. *Diabetes.* 51(1):55-65. (5D3-F7, IHC paraffin, PubMed)

Related Products

00-4202 ELISA Diluent Solution (5X)

00-4203 Super AquaBlue ELISA Substrate

14-7096 Anti-CCL2 (MCP-1) Purified (2H5)

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

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