

# MCP-1 (FL-148): sc-28879

## BACKGROUND

Eotaxin and the monocyte chemoattractant proteins, MCP-1-5, form a subfamily of the C-C (or  $\beta$ ) chemokines, which are characterized by a set of conserved adjacent cysteines. MCPs are produced by a variety of cells, including T lymphocytes, subsequent to their activation with cytokines such as IL-1, TNF $\alpha$  and IFN- $\gamma$ . *In vitro* studies have shown that the MCP isoforms exhibit their chemotactic effects on different subpopulations of lymphocytes. MCP-1 is a potent basophil activator but does not affect eosinophils. MCP-1 levels are increased during infection and inflammation, which are both characterized by leukocyte infiltration. Two MCP-1 receptors, which differ in their carboxy-termini, have been identified.

## CHROMOSOMAL LOCATION

Genetic locus: Ccl2 (mouse) mapping to 11 B5, Ccl12 (mouse) mapping to 11 C.

## SOURCE

MCP-1 (FL-148) is a rabbit polyclonal antibody raised against amino acids 1-148 representing full length MCP-1 of mouse origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

MCP-1 (FL-148) is recommended for detection of MCP-1 and to a lesser extent, MCP-5 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of MCP-1: 12 kDa.

Positive Controls: mouse liver extract: sc-2256.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

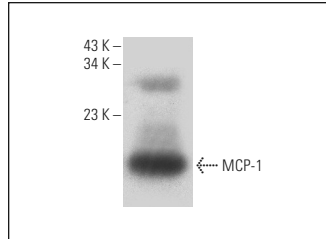
## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

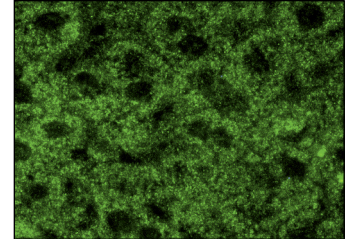
## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## DATA



MCP-1 (FL-148): sc-28879. Western blot analysis of MCP-1 expression in mouse liver tissue extract.



MCP-1 (FL-148): sc-28879. Immunofluorescence staining of normal mouse liver frozen section showing cytoplasmic staining.

## SELECT PRODUCT CITATIONS

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- Aoki, T., et al. 2009. Impact of monocyte chemoattractant protein-1 deficiency on cerebral aneurysm formation. *Stroke* 40: 942-951.
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- Xu, H., et al. 2011. Cataract surgery induces retinal pro-inflammatory gene expression and protein secretion. *Invest. Ophthalmol. Vis. Sci.* 52: 249-255.
- Ding, Z., et al. 2011. An orally available small imidazolium salt ameliorates inflammation and fibrosis in a murine model of cholestasis. *Lab. Invest.* 91: 752-763.
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Try **MCP-1 (ECE.2): sc-52701**, our highly recommended monoclonal alternative to MCP-1 (FL-148).