

# MCP-5 (16Q07): sc-74220

## BACKGROUND

Eotaxin and the monocyte chemotactic 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-5 is thought to be important in the early stages of lung allergic inflammation.

## REFERENCES

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3. Proost, P., et al. 1996. Human monocyte chemotactic proteins-2 and -3: structural and functional comparison with MCP-1. *J. Leukoc. Biol.* 59: 67-74.
4. Dubois, P.M., et al. 1996. Early signal transduction by the receptor to the chemokine monocyte chemotactic protein-1 in a murine T cell hybrid. *J. Immunol.* 156: 1356-1361.
5. Beall, C.J., et al. 1996. Site-directed mutagenesis of monocyte chemoattractant protein-1 identifies two regions of the polypeptide essential for biological activity. *Biochem. J.* 313: 633-640.
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7. Garcia-Zepeda, E.A., et al. 1996. Human monocyte chemoattractant protein (MCP)-4 is a novel C-C chemokine with activities on monocytes, eosinophils, and basophils induced in allergic and nonallergic inflammation that signals through the C-C chemokine receptors (CCR)-2 and -3. *J. Immunol.* 157: 5613-5626.
8. Jia, G.Q., et al. 1996. Distinct expression and function of the novel mouse chemokine monocyte chemotactic protein-5 in lung allergic inflammation. *J. Exp. Med.* 184: 1939-1951.

## CHROMOSOMAL LOCATION

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

## SOURCE

MCP-5 (16Q07) is a rat monoclonal antibody raised against full length recombinant MCP-5 of mouse origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>2a</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

MCP-5 (16Q07) is recommended for detection of MCP-5 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MCP-5 siRNA (m): sc-43916, MCP-5 shRNA Plasmid (m): sc-43916-SH and MCP-5 shRNA (m) Lentiviral Particles: sc-43916-V.

Molecular Weight of MCP-5: 13 kDa.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.