# MCP-5 (K-19): sc-9718



The Power to Question

#### **BACKGROUND**

The monocyte chemotactic proteins, MCP-1, MCP-2, MCP-3, MCP-4 and MCP-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- $\gamma$ . MCP-1 levels are increased during infection and inflammation, which are both characterized by leukocyte infiltration. MCP-1 is a potent basophil activator but does not affect eosinophils, whereas MCP-2 stimulates both eosinophils and basophils. MCP-3 has been shown to have the broadest range of influence, activating monocytes, dendritic cells, lymphocytes, natural killer cells, eosinophils, basophils and neutrophils. MCP-4 signals through CCR-2 and -3 and is a potent chemoattractant for monocytes, eosinophils, and basophils induced in allergic and nonallergic inflammation. MCP-5 is thought to be important in the early stages of lung allergic inflammation.

## REFERENCES

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- Weber, M., et al. 1995. Monocyte chemotactic protein MCP-2 activates human basophil and eosinophil leukocytes similar to MCP-3. J. Immunol. 154: 4166-4172.
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#### **CHROMOSOMAL LOCATION**

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

#### **SOURCE**

MCP-5 (K-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MCP-5 of mouse origin.

### **PRODUCT**

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

Blocking peptide available for competition studies, sc-9718 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

MCP-5 (K-19) 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), 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).

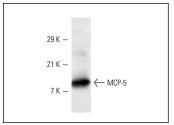
Suitable for use as control antibody for MCP-5 siRNA (m): sc-43916, MCP-5 shRNA Plasmid (m): sc-43916-SH and MCP-5 shRNA (m) Lentiviral Particles: sc-43916-V.

Molecular Weight of MCP-5: 13 kDa.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



MCP-5 (K-19): sc-9718. Western blot analysis of

## **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.