



# Anti-Human MCP-3

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>102-P57</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of goats pre-immunized with highly pure (>98%) recombinant human MCP 3 (human Macrophage/Monocyte chemotactic protein-3). Anti-human MCP 3 specific antibody was purified by affinity chromatography employing immobilized human MCP 3 matrix.

## Target Background

<b>Synonyms (Target):</b>	CCL7; FIC; MARC; MCP3; NC28; MCP-3; SCYA6; SCYA7
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MCP3 or CCL7 are two monocyte chemotactic proteins produced by human MG63 osteosarcoma cells. Both MCP3 and CCL7 are members of the CC family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP1. CCL7 also shares 58% amino acid identity with MCP2. CCL7 cDNA encodes a 99 amino acid residue precursor protein from which the Nterminal 23 amino acid residues are cleaved to generate the 76 amino acid residue mature CCL7. Mature CCL7 contains a potential Nlinked and several possible Olinked glycosylation sites. Similarly to other CC chemokines, all three MCP proteins are monocyte chemoattractants. In addition, the three MCPs can chemoattract activated NK cells as well as CD4+ and CD8+ T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.

### Database References Target

<b>Protein RefSeq:</b>	NP_006264
<b>Uniprot ID:</b>	P80098
<b>mRNA RefSeq:</b>	NM_006273

## Product Specifications

<b>Species reactivity</b>	Human
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant Human MCP-3
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

**Neutralization:** To yield one-half maximal inhibition [ND<sub>50</sub>] of the biological activity of human MCP-3 (100.00 ng/ml), a concentration of 3.0 - 4.0 µg/ml of this antibody is required.

**ELISA:** To detect human MCP-3 by direct ELISA (using 100µl/well antibody solution) a concentration of at least 0.5µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant human MCP-3.

**Western Blot:** To detect human MCP-3 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant human MCP-3 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**