



# Anti-Human MCP-1 / MCAF

20150507BB



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

<b>Cat.-no.:</b>	<b>102-P55</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant hMCP 1/MCAF (human Macrophage/Monocyte chemotactic protein-1). Anti-hMCP-1/MCAF specific antibody was purified by affinity chromatography employing immobilized hMCP-1/MCAF matrix.

## Target Background

<b>Synonyms (Target):</b>	CCL2; HC11; MCAF; MCP1; MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30
---------------------------	---

The MCP proteins belong to the CC chemokine family, and signal through CCR2 and, with the exception of MCP-1, other CCR receptors. The MCP proteins chemoattract and activate monocytes, activated T cells, basophils, NK cells, and immature dendritic cells. The MCP family cross reacts across species. Recombinant human MCP-1 is an 8.6 kDa protein containing 76 amino acid residues including the four highly conserved cysteine residues present in the CC chemokines.

### Database References Target

<b>Protein RefSeq:</b>	NP_002973
<b>Uniprot ID:</b>	P13500
<b>mRNA RefSeq:</b>	NM_002982

## 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-1/MCAF
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

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

**Stability:** The reconstituted antibody is stable for at least 2 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

**Immunohistochemistry:** This antibody stained formalin-fixed, paraffin-embedded sections of human breast invasive ductal carcinoma. The recommended concentration is 2.5 µg/ml and a two-hour incubation at room temperature. An HRP-labeled polymer detection system was used with a DAB chromogen. Heat induced antigen retrieval with a pH 6.0 Sodium Citrate buffer is recommended. Optimal concentrations and conditions may vary.

**Sandwich ELISA:** To detect human MCP-1/MCAF by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 – 2.0 µg/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 MCP1/MCAF.

**Western Blot:** To detect hMCP-1/MCAF 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-1/MCAF 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!**