



Anti-Human MCP-4

20150304ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	101-M76
Size:	500 µg
Lot. No.:	According to product label

Preparation: Monoclonal antibodies were produced in BALB/c mice using recombinant human MCP-4 as the immunizing antigen. This IgG1, κ antibody was purified from a Protein A chromatography column.

Target Background

Synonyms (Target):	CCL13; NCC1; CKb10; MCP-4; NCC-1; SCYL1; SCYA13
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Monocyte Chemoattractant Protein-4 (MCP-4), is a CC chemokine that acts as a chemoattractant for monocytes, eosinophils and T cells and as an activator of basophils. Human MCP-4/CCL13 cDNA encodes a 98 amino acid residue precursor protein with a 23 amino acid residue hydrophobic signal peptide that is cleaved to yield an 8 kDa, 75 aa mature CCL13. Mature MCP-4 lacks any potential N-glycosylation sites and shares a pyroglutamate proline motif with other human MCP proteins. Human MCP-4 is most homologous to MCP-1, -3 and Eotaxin, exhibiting approximately 65-66% amino acid sequence identity. CCL13 or MCP-4 mRNA is expressed by a number of activated cell types, including endothelial cells, macrophages, bronchial epithelium and type II alveolar cells, and perhaps lymphocytes. The bioactivities of MCP-4 are mediated by the CC chemokine receptors CCR2 and CCR3.

Database References Target

Protein RefSeq:	NP_005399
Uniprot ID:	Q99616
mRNA RefSeq:	NM_005408

Product Specifications

Species reactivity	Human
Cross reactivity	Human
Host	Mouse
Clonality	Monoclonal Antibody
Purification	Protein A chromatography
Immunogen	Recombinant Human MCP-4
Formulation	lyophilized
Reconstitution buffer	water

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

Stability: Lyophilized antibody is stable at room temperature for up to 1 month. 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

ELISA:

This antibody can be used at a concentration of 2 - 4 µg/ml, as a capture antibody in conjunction with a compatible secondary reagent to yield satisfactory results in a sandwich ELISA (using 100 µl/well antibody solution).

Neutralization:

To yield one-half maximal inhibition [ND₅₀] of the biological activity of hMCP-4 (100 ng/ml), a concentration of 1 - 5 µg/ml of this antibody is required.

Western Blot:

In combination with appropriate secondary detection antibodies this antibody can be used in concentrations of 20-40 ng/ml.

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