



Anti-Human MCP-3

20150304ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

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| Cat.-no.: | 101-M13 |
| Size: | 500 µg |
| Lot. No.: | According to product label |

Preparation: Monoclonal antibodies were produced in C3H/HeJ mice using recombinant human MCP-3 as the immunizing antigen. IgG1 antibody was purified from ascites fluid on a Protein A affinity column.

Target Background

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| Synonyms (Target): | CCL7; FIC; MARC; MCP3; NC28; MCP-3; SCYA6; SCYA7 |
|---------------------------|--|

MCP2 and CCL7 are two monocyte chemotactic proteins produced by human MG63 osteosarcoma cells. Both MCP2 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

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| Protein RefSeq: | NP_006264 |
| Uniprot ID: | P80098 |
| mRNA RefSeq: | NM_006273 |

Product Specifications

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| Species reactivity | Human |
| Cross reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal Antibody |
| Purification | Protein A chromatography |
| Immunogen | Recombinant Human MCP-3 |
| 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:

In a sandwich ELISA (assuming 100 µl/well), a concentration of 2.0-4.0 µg/ml of this antibody will detect recombinant human MCP-3 when used with biotinylated antigen affinity purified anti-human MCP-3 as the detection antibody at a concentration of approximately 0.5 - 1.0 µg/ml.

Western Blot:

To detect hMCP-3 by Western Blot analysis this antibody can be used at a concentration of 0.5 - 1 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hMCP-3 is 2.0-4.0 ng/lane, under reducing conditions and 0.25 - 0.5 ng/lane, under non-reducing conditions.

Neutralization:

To yield one-half maximal inhibition [ND50] of the biological activity of Human MCP-3(100 ng/ml), a concentration of 1 - 3 µg/ml of this antibody is required.

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