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2355 Derry Road East, Unit 23, Mississauga, ON L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

### Mouse anti-Human MCP-1 (MCAF) Monoclonal Antibody [S14] Datasheet

|                         |   |
|-------------------------|---|
| <b>Catalogue No</b>     | MO-C40021B  |
| <b>Product name</b>     | Mouse anti-Human MCP-1 (MCAF) Monoclonal Antibody [S14]   |
| <b>Clone No</b>         | S14   |
| <b>Product type</b>     | Primary antibodies, Matched Antibody Pair Capture Antibody  |
| <b>Description</b>      | Mouse monoclonal antibody to Human Monocyte Chemotactic Protein-1 (MCP-1)/Monocyte Chemotactic Activating Factor (MCAF), Protein G affinity purified  |
| <b>Target protein</b>   | Human MCP-1   |
| <b>Immunogen</b>        | Purified recombinant human MCP-1  |
| <b>Specificity</b>      | This monoclonal antibody reacts with natural and recombinant human MCP-1  |
| <b>Reactivity</b>       | Human, others not tested  |
| <b>Cross-reactivity</b> | Does not react with human interleukin-8 (IL-8) and other human cytokines tested such as interleukin-1 $\beta$ (IL-1 $\beta$ ), serum amyloid A (SAA) and epidermal growth factor (EGF)  |
| <b>Clonality</b>        | Monoclonal  |
| <b>Source</b>           | Mouse   |
| <b>Myeloma</b>          | Sp2/0-Ag14  |
| <b>Subclass</b>         | IgG1  |
| <b>Light Chain</b>      | Kappa   |
| <b>Formulation</b>      | Lyophilized from a solution in 0.01M PBS, pH 7.2  |
| <b>Reconstitution</b>   | Double distilled water is recommended to adjust the final concentration to 1.00 mg/ml   |
| <b>Applications</b>     | <p><b>ELISA:</b> Reacts with human MCP-1. This antibody can be used as a capture antibody in sandwich ELISA applications for human MCP-1 detection in combination with a monoclonal tracer/detection antibody (HRP-conjugated, Cat. No.: MO-C40021T or Biotin-conjugated, Cat. No.: MO-C40021TB). Suggested Capture Coating Dose: 0.3<math>\mu</math>g/well; Substrate: TMB. If the above suggested conditions are followed approximately 1.5 pg/mL of MCP-1 in serum/plasma or 4 pg/mL of MCP-1 in medium can be detected with an assay range of 0-1600 pg/mL.</p> <p><b>Neutralizing:</b> Tests on the ability to inhibit monocyte chemotaxis toward 1 nM recombinant human MCP-1 in blindwell chambers showed that the antibodies were particularly effective at blocking MCP-1 activity at a concentration of 0.5<math>\mu</math>g/mL. It was also found that S-14 could inhibit the function of native MCP-1 at concentrations similar to inhibitory doses for recombinant MCP-1</p> <p><b>Western Blot:</b> Concentration of 0.1-1.0 <math>\mu</math>g/mL will allow visualization of 0.1 <math>\mu</math>g/lane of human MCP-1</p> |
| <b>Research</b>         | Immunology, cytokine, and chemotaxis  |
| <b>Storage</b>          | Store at -20 $^{\circ}$ C   |
| <b>References</b>       | If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide any product of choice as gratitude.   |

**This product is for LABORATORY RESEARCH USE and further manufacture only, and can not be administration to humans and animals for use in diagnostic and therapeutic procedures.**

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