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## Anti-Mouse GM-CSF Functional Grade Purified

Catalog Number: 16-7331

Also Known As: Granulocyte-macrophage colony stimulating factor, Colony-stimulating factor, CSF12

RUO: For Research Use Only. Not for use in diagnostic procedures.

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### Product Information

**Contents:** Anti-Mouse GM-CSF Functional Grade Purified

**Formulation:** aqueous buffer, no sodium azide

**REF** **Catalog Number:** 16-7331

 **Temperature Limitation:** Store at 2-8°C.

**Clone:** MP1-22E9

**LOT** **Batch Code:** Refer to Vial

**Concentration:** 1 mg/mL

 **Use By:** Refer to Vial

**Host/Isotype:** Rat IgG2a, kappa

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

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### Description

The MP1-22E9 antibody reacts with mouse granulocyte/macrophage - colony stimulating factor (GM-CSF). The MP1-22E9 antibody is a neutralizing antibody. Mouse GM-CSF is a 14 kDa factor produced mainly by activated T cells and macrophages. Other cell types, such as endothelium and fibroblasts, also secrete GM-CSF in response to TNF- $\alpha$ , IL-2, IL-1, and IFN- $\gamma$ . GM-CSF stimulates growth of macrophages, granulocytes and dendritic cells. GM-CSF is found as a membrane-bound form and also as a complex associated with the extracellular matrix. Non-glycosylated GM-CSF is biologically active.

### Applications Reported

The MP1-22E9 antibody has been reported for use in ELISA, ELISPOT, neutralization, and intracellular staining for flow cytometric analysis.

### Applications Tested

The Functional Grade Purified MP1-22E9 antibody has been tested by LAL assay to verify low endotoxin levels, by ELISA, and in bioassay for neutralization of GM-CSF bioactivity.

The MP1-22E9 antibody at 1.25 ug/ml has been found to inhibit by 50% the biological effects of 1 ng/ml mouse GM-CSF in an MC/9 cell proliferation assay. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols<sup>®</sup> section.

The MP1-22E9 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse GM-CSF (Granulocyte/Macrophage-Colony Stimulating Factor, GMCSF) in combination with the biotin MP1-31G6 (13-7332) antibody for detection and recombinant mouse GM-CSF (14-8331) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4  $\mu$ g/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/ml - 8 pg/ml should be included in each ELISA plate.

### Related Products

13-7332 Anti-Mouse GM-CSF Biotin (MP1-31G6)

14-8331 Mouse GM-CSF Recombinant Protein

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified (eBR2a)

34-8041 Mouse IL-4 Recombinant Protein Carrier-Free

34-8331 Mouse GM-CSF Recombinant Protein Carrier-Free

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