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## Anti-Mouse GM-CSF Purified

**Catalog Number:** 14-7331

**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 Purified

**REF** **Catalog Number:** 14-7331

**Clone:** MP1-22E9

**Concentration:** 0.5 mg/mL

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

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

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

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

 **Use By:** Refer to Vial

 **Caution, contains Azide**

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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 capture of mouse GM-CSF by ELISA, intracellular staining and flow cytometric analysis, and for neutralization of GM-CSF bioactivity.

### Applications Tested

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

00-4202 ELISA Diluent Solution (5X)

00-4203 Super AquaBlue ELISA Substrate

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

14-8331 Mouse GM-CSF Recombinant Protein

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

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