

Purified Anti-Mouse GM-CSF Rat Monoclonal Antibody

Code: 212-01-126E **Lot no.:** 22E914.67

Clone: MP1-22E9 **Expiration:** 1 year from date of dispatch

Isotype: Rat IgG_{2a}

Contents: 100µg at 1.0 mg/ml purified antibody buffered in PBS (pH 7.4) with 0.05% (w/v) sodium azide.

Source: Tissue culture supernatant. Yeast-expressed mouse GM-CSF was used as the immunogen.

Purification: Affinity chromatography.

Specificity: This antibody reacts with mouse GM-CSF (1-3).

Applications: ELISA: Purified clone MP1-22E9 as the capture antibody with biotinylated clone MP1-31G6 (Cat # 212-01-226G)^{1,3-5}.

Western blotting: 1-5 µg/ml of antibody can detect less than 100 ng of recombinant mouse GM-CSF under reducing conditions.

Neutralization: In a functional assay 80ng/ml of this antibody neutralized 50% of the activity of 50 pg/ml of recombinant mouse GM-CSF^{2,4}. The azide free form of this clone cat # 212-01-526E is recommended.

This clone may also be used in ELISPOT and Immunohistochemistry of GM-CSF expressing mouse cells^{1,6}.

We recommend that each laboratory determine an optimum working titre for use in its particular application.

- References:**
1. Sander, B., I. Hoiden, U. Andersson, E. Moller, and J. Abrams. "Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood sera". *HJ. Immunol. Meth.* 166 : 201-214 (1993)
 2. Suda, T. et al. *Cell. Immunol.* 129: 228-240 (1990)
 3. Nozaki, S. et al. *J. Invest. Dermatol.* 97: 10-14 (1991)
 4. Abrams, J.S. et al. *Strategies of anti-cytokine monoclonal antibody development. Immunol. Rev.* 127:5-24, (1992).
 5. Abrams, J. "Immunoenzymatic assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies" In. "Current Protocols in Immunology" (J. Coligan et al. Editors) John Wiley and Sons, New York, Unit 6.20 (1995)
 6. Litton, et al. *J. Immunol. Meth.* 175: 47-58 (1994)

Storage: For use within 1 month store at +4°C, for long term storage aliquot antibody into small volumes and store at -20°C. Avoid repeated freeze thaw cycles.

For Research Use Only. Not For Diagnostic or Therapeutic Use.

Conditions: The information disclosed herein is not be construed as a recommendation to use the above product in violation of any patents. ImmunoKontakt will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Preservatives: Sodium azide (NaN₃) was added as a preservative to prevent bacterial contamination. Sodium azide is a poisonous and hazardous substance, which should be handled by trained staff only. Since sodium azide yields highly toxic hydrazoic acid under acidic conditions it is important to dilute azide compounds in running water before discarding.

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