

Product Data Sheet

Biotin anti-mouse GM-CSF

Catalog # / Size: 505501 / 50 µg
505502 / 500 µg

Clone: MP1-31G6

Isotype: Rat IgG1, κ

Immunogen: Yeast-expressed, recombinant mouse GM-CSF.

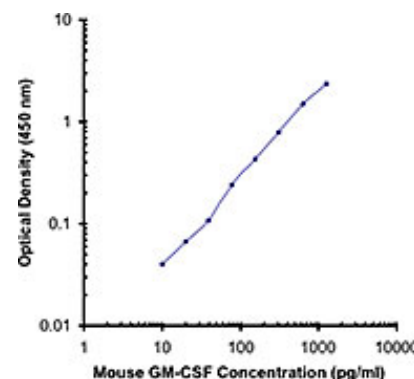
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Applications:

Applications: ELISA Detection, ELISPOT Detection

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.5-2 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of GM-CSF recombinant protein ranging from 2000 to 15 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA or ELISPOT Detection^{1,3-5}:** The biotinylated MP1-31G6 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified MP1-22E9 antibody (Cat. No. 505402/505408) as the capture antibody.

Additional reported applications (for the relevant formats) include: Western blotting, immunoprecipitation⁴, and Neutralization²⁻⁴. The LEAF™ purified MP1-22E9 antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse GM-CSF bioactivity *in vivo* and *in vitro* (Cat. No. 505408).

Application References:

1. Sander, B., *et al.* 1993. *J. Immunol. Meth.* 166:201.
2. Suda, T., *et al.* 1990. *Cell. Immunol.* 129:228.
3. Nozaki, S., *et al.* 1991. *J. Invest. Dermatol.* 97:10.
4. Abrams, J., *et al.* 1992. *Immunol. Rev.* 127:5.
5. Abrams, J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.20.

Description: GM-CSF is a hematopoietic factor that is produced by T cells, macrophages, fibroblasts and endothelial cells. This multifunctional cytokine stimulates progenitor cells of neutrophils, eosinophils and macrophages. GM-CSF is also a differentiation and activating factor for granulocytic and monocytic cells. The MP1-31G6 antibody reacts with mouse granulocyte/macrophage-colony stimulating factor (GM-CSF). The MP1-31G6 antibody can neutralize the bioactivity of natural or recombinant GM-CSF.

Antigen References:

1. Fitzgerald, K., *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press, San Diego.
2. Demetri, G., *et al.* 1991. *Blood* 78:2791.
3. Fan, D., *et al.* 1991. *In vivo* 5:571.
4. Negrin, R., *et al.* 1992. *Adv. Pharmacol.* 23:263.

Related Products:

Product
Purified anti-mouse GM-CSF
Recombinant Mouse GM-CSF
HRP Avidin
TMB Substrate Reagent Set
ELISA Assay Diluent (5X)

Clone
MP1-22E9
rm GM-CSF
Avidin

Application
ELISA Capture, IHC
BA, ELISA
ELISA, ELISPOT, IHC, WB
ELISA
ELISA



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