

LEAF™ Purified anti-mouse GM-CSF

Catalog # / Size: 505407 / 50 µg
505408 / 500 µg

Clone: MP1-22E9

Isotype: Rat IgG2a, κ

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

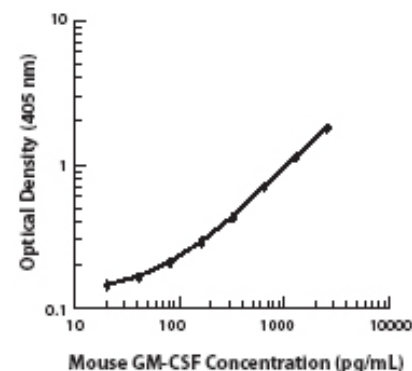
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The GM-CSF antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture, ELISPOT Capture - *Quality tested*
Neut, ICFC, IHC - *Reported in the literature*

Recommended Usage: Each lot of this GM-CSF antibody is quality control tested by ELISA assay. For ELISA or ELISPOT Capture, the antibody should be titrated between 1-4 µg/ml to determine optimal concentration.

Application Notes: **ELISA or ELISPOT Capture**^{1,3-5}: The Purified MP1-22E9 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated MP1-31G6 antibody (Cat. No. 505502) as the detecting antibody. The LEAF™ Purified antibody is suggested for ELISPOT capture.

Flow Cytometry: The fluorochrome-labeled MP1-22E9 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify GM-CSF -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

Neutralization^{2,4}: The LEAF™ Purified 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).

Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining^{1,6,7} of paraformaldehyde-fixed, saponin-treated frozen tissue sections, and immunocytochemistry.

Application References:

- Sander, B., *et al.* 1993. *J. Immunol. Meth.* 166:201.
- Suda, T., *et al.* 1990. *Cell. Immunol.* 129:228.
- Nozaki, S., *et al.* 1991. *J. Invest. Dermatol.* 97:10.
- Abrams, J., *et al.* 1992. *Immunol. Rev.* 127:5.
- Abrams, J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.20.
- Sander, B., *et al.* 1991. *Immunol. Rev.* 119:65.
- Andersson, U., *et al.* 1999. *Detection and quantification of gene expression.* New York:Springer-Verlag.
- Larkin, J., *et al.* 2006. *J. Immunol.* 177:268.

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 MP1-22E9 antibody reacts with mouse granulocyte/macrophage-colony stimulating factor (GM-CSF). The MP1-22E9 antibody can neutralize the bioactivity of natural or recombinant GM-CSF.

Antigen References:

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

Related Products:

Product
Recombinant Mouse GM-CSF
LEAF™ Purified Rat IgG2a, κ Isotype Ctrl

Clone
rm GM-CSF
RTK2758

Application
BA, ELISA
FC, ICFC, WB, IP, ICC, IF,
IHC, FA



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