

Product Data Sheet

PE anti-mouse GM-CSF

Catalog # / Size: 505405 / 25 µg
505406 / 100 µg

Clone: MP1-22E9

Isotype: Rat IgG2a, κ

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

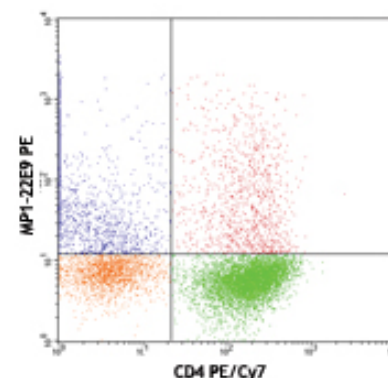
Reactivity: Mouse

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

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

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



PMA+ionomycin-stimulated BALB/c mouse T cells surface were stained with CD4 PE/Cy7 and then intracellular stained with MP1-22E9 PE

Applications:

Applications: ICFC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	Fixation Buffer		ICC, ICFC
	Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC
	Brefeldin A Solution (1,000X)		ICFC
	Monensin Solution (1,000X)		ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	PE Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC



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