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Product Data Sheet

FITC anti-mouse GM-CSF

Catalog # / Size: 505403 / 25 µg
505404 / 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 FITC under optimal conditions. The solution is free of unconjugated FITC.

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 and protected from prolonged exposure to light. **Do not freeze.**

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 10^6 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 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:
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.
6. Sander, B., *et al.* 1991. *Immunol. Rev.* 119:65.
7. Andersson, U., *et al.* 1999. *Detection and quantification of gene expression.* New York:Springer-Verlag.
8. Larkin, J., *et al.* 2006. *J. Immunol.* 177:268.J. Immunol.

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:
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	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
FITC Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC

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