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Product Data Sheet

PE anti-mouse IL-3

Catalog # / Size: 503903 / 25 µg
503904 / 100 µg

Clone: MP2-8F8

Isotype: Rat IgG1, κ

Immunogen: COS-expressed, recombinant mouse IL-3

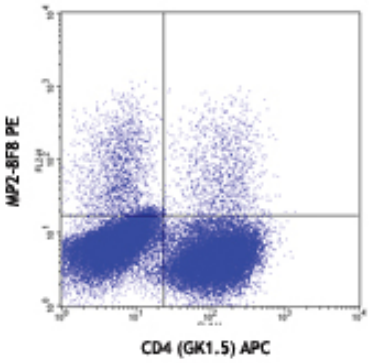
Reactivity: Mouse

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 Th2-polarized C57BL/6 splenocytes surface stained with CD4 (GK1.5) APC and intracellularly stained with MP2-8F8 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 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[1-5,8]:** The purified MP2-8F8 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated MP2-43D11 antibody (Cat. No. 504002) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture.
Flow Cytometry[1]: The fluorochrome-labeled MP2-8F8 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-3 -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.
Neutralization[1-3,6]: The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of IL-3 bioactivity *in vivo* and *in vitro* (Cat. No. 503906).
Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting, immunohistochemical staining[4,7] of paraformaldehyde-fixed, saponin-treated frozen tissue sections, and immunocytochemistry.

Application References:
1. Abrams, J., *et al.* 1992. *Immunol. Rev.* 127:5.
2. Abrams, J., *et al.* 1988. *J. Immunol.* 140:131.
3. Cockayne, D., *et al.* 1991. *Growth Factors* 5:171.
4. Sander, B., *et al.* 1993. *J. Immunol. Meth.* 166:201.
5. Abrams, J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.20.
6. Finkelman, F., *et al.* 1993. *J. Immunol.* 151:1235.
7. Andersson, U., *et al.* 1999. *Detection and quantification of gene expression.* New York:Springer-Verlag.
8. Karulin, A., *et al.* 2000. *J. Immunol.* 164:1862.

Description: IL-3 is a highly species-specific pleiotropic factor produced primarily by activated T cells though also by mast cells keratinocytes, and astrocytes, which stimulates colony formation of megakaryocytes, neutrophils, and macrophages from bone marrow cultures. The MP2-8F8 antibody reacts with mouse interleukin-3 (IL-3). The MP2-8F8 antibody can neutralize the bioactivity of natural or recombinant IL-3.

Antigen References:
1. Fitzgerald, K., *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
2. Frendl, G., 1992. *Int. J. Immunopharmacol.* 14:421.
3. Ihle, J., 1992. *Chem. Immunology* 51:65.
4. Valen T, P., *et al.* 1990. *Blut* 61:338.

Related Products:

Product	Clone	Application
PE Rat IgG1, κ Isotype Ctrl	RTK2071	FC, ICFC
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

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