

Product Data Sheet

Purified anti-human IFN- γ

Catalog # / Size: 502501 / 50 μ g
 502502 / 500 μ g

Clone: 4S.B3

Isotype: Mouse IgG1, κ

Immunogen: Partially purified, native human IFN- γ

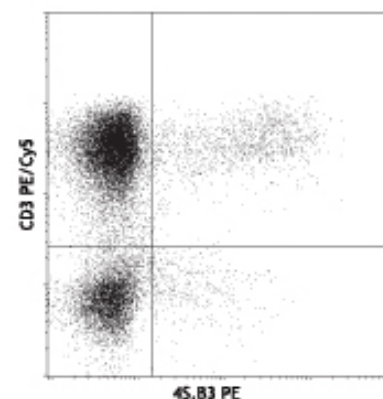
Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography.

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.



PMA/Ionomycin-stimulated human PBMCs were stained with CD3 PE/Cy5 and 4S.B3 PE

Applications:

Applications: ELISA - *Quality tested*
 ICFC, WB - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA Capture applications, the antibody should be titrated between 0.25 - 2 μ g/ml to determine optimal condition. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA or ELISPOT Detection⁵:** The biotinylated 4S.B3 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified NIB42 antibody (Cat. No. 502402/502404) or purified MD-1 antibody (Cat. No. 507502/507513) as the capture antibody.

Flow Cytometry^{3,4,6-8}: The fluorochrome-labeled 4S.B3 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN- γ -producing cells within mixed cell populations.

Additional reported applications (for the relevant formats) include: neutralization^{1,2}, Western blotting, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated tissue sections, and immunocytochemistry. The 4S.B3 antibody can neutralize the bioactivity of natural or recombinant IFN- γ .

Note: For testing human IFN- γ in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 430101 to 430106) are specially developed and recommended.

Application References:

- Meager A, *et al.* 1984. *J. Interferon Res.* 4:619. (Neut)
- Meager A, 1987. *Lymphokines and Interferons: A Practical Approach*. IRL Press Ltd, Oxford, p. 105. (Neut)
- Sester M, *et al.* 2002. *J. Virol.* 76:3748. (ICFC)
- Infante-Duarte C, *et al.* 2000 *J. Immunol.* 165:6107. (ICFC)
- Goodier M, *et al.* 2000. *J. Immunol.* 165:139. (ELISA)
- Chen H, *et al.* 2005. *J. Immunol.* 175:591. (ICFC)
- Smeltz RB, 2007. *J. Immunol.* 178:4786. (ICFC)
- Iwamoto S, *et al.* 2007. *J. Immunol.* 179:1449. (ICFC) PubMed
- Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (ICFC)

Description: Interferon- γ is a potent multifunctional cytokine which is secreted primarily by activated NK cells and T cells. Originally characterized based on anti-viral activities, IFN- γ also exerts anti-proliferative, immunoregulatory, and proinflammatory activities. IFN- γ can upregulate MHC class I and II antigen expression by antigen-presenting cells.

Antigen References:

- Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press, San Diego.
- De Maeyer E, *et al.* 1992. *Curr. Opin. Immunol.* 4:321.
- Farrar M, *et al.* 1993. *Annu. Rev. Immunol.* 11:571.
- Gray P, *et al.* 1987. *Lymphokines* 13:151.

Related Products:	Product	Clone	Application
	Purified anti-human IFN- γ	NIB42	ELISA Capture
	Purified anti-human IFN- γ	MD-1	ELISA Capture, IHC, WB



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