

Product Data Sheet

PerCP/Cy5.5 anti-human IFN- γ

Catalog # / Size: 502525 / 25 tests
502526 / 100 tests

Clone: 4S.B3

Isotype: Mouse IgG1, κ

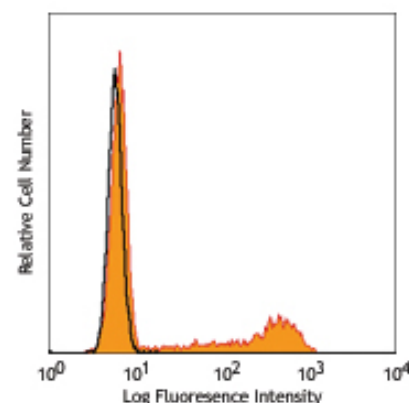
Immunogen: Partially purified, native human IFN- γ

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

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

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



PMA+ionomycin-stimulated (6 hours)
human peripheral blood lymphocytes
intracellularly stained with 4S.B3
PerCP/Cy5.5

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 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

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.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References:

1. Meager A, et al. 1984. *J. Interferon Res.* 4:619. (Neut)
2. Meager A, 1987. *Lymphokines and Interferons: A Practical Approach*. IRL Press Ltd, Oxford, p. 105. (Neut)
3. Sester M, et al. 2002. *J. Virol.* 76:3748. (ICFC)
4. Infante-Duarte C, et al. 2000 *J. Immunol.* 165:6107. (ICFC)
5. Goodier M, et al. 2000. *J. Immunol.* 165:139. (ELISA)
6. Chen H, et al. 2005. *J. Immunol.* 175:591. (ICFC)
7. Smeltz RB, 2007. *J. Immunol.* 178:4786. (ICFC)
8. Iwamoto S, et al. 2007. *J. Immunol.* 179:1449. (ICFC) PubMed
9. 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:

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

Related Products:

Product
Cell Staining Buffer
PerCP/Cy5.5 Mouse IgG1, κ Isotype Ctrl

Clone

MOPC-21

Application

FC, ICC, ICFC
FC, ICFC



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