

Product Data Sheet

PE anti-human IFN-γ

Catalog # / Size: 502508 / 25 tests

502510 / 50 µg 502509 / 100 tests

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

PE under optimal conditions. The solution is free of unconjugated PE and

unconjugated antibody.

Formulation: µg format: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium

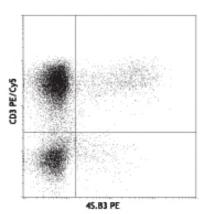
Test format: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium

azide, 0.2% (w/v) BSA (USA origin).

Concentration: test sizes: lot-specific; µg size: 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/lonomycin-stimulated human PBMCs were stained with CD3 PE/Cy5 and 4S.B3 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. Test size products are transitioning from 20 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at

www.biolegend.com/testsize regarding the test size change.

Application Notes: ELISA or ELISPOT Detection⁵: The biotinylated 4S.B3 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT betections: The blotthylated 45.83 antibody is useful as a detection antibody for a sandwic 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: 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)

3. Sester M, et al. 2002. J. VIIOI. 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-y 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

PE Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer Fixation Buffer

Permeabilization Wash Buffer (10X)

Clone MOPC-21 **Application** FC, ICFC FC, ICC, ICFC ICC, ICFC ICC, ICFC, IHC



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RBC Lysis Buffer (10X) Brefeldin A Solution (1,000X) Monensin Solution (1,000X) PE Mouse IgG1, κ Isotype Ctrl (ICFC)

MOPC-21

FC, ICFC ICFC ICFC ICFC



