

Product Data Sheet

APC anti-human IFN- γ

Catalog # / Size: 506510 / 100 tests

Clone: B27

Isotype: Mouse IgG1, κ

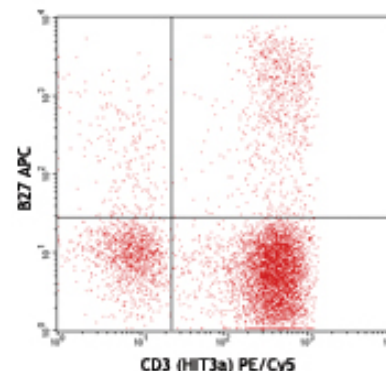
Immunogen: *E. coli*-expressed recombinant human IFN- γ

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, African Green, Sooty Mangabey

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC 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 B27 APC and CD3 (HIT3a) PE/Cy5

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 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l 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: **Flow Cytometry²:** The fluorochrome-labeled B27 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN- γ -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}: The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for neutralization of human IFN- γ bioactivity (Cat. No. 506513).

Additional reported applications (for the relevant formats) include: immunoprecipitation¹, Western Blotting¹, immunohistochemical staining⁴ of paraformaldehyde-fixed, saponin-treated frozen tissue sections, and immunocytochemistry.

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. Favre C, *et al.* 1989. *Molec. Immunol.* 26:17.
2. Kaur A, *et al.* 2002. *J Virol.* 76:3646.
3. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5.
4. Andersson U, *et al.* 1999. *Detection and quantification of gene expression.* New York:Springer-Verlag.
5. Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)

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. The B27 antibody reacts with the human interferon- γ . The B27 antibody can neutralize the bioactivity of natural or recombinant IFN- γ .

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
APC Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer
Fixation Buffer
Permeabilization Wash Buffer (10X)
RBC Lysis Buffer (10X)
Brefeldin A Solution (1,000X)
Monensin Solution (1,000X)
APC Mouse IgG1, κ Isotype Ctrl (ICFC)

Clone
MOPC-21

Application
FC, ICFC
FC, ICC, ICFC
ICC, ICFC
ICC, ICFC, IHC
FC, ICFC
ICFC
ICFC
ICFC

MOPC-21



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