

Ultra-LEAF™ Purified anti-human IFN-γ Antibody

Catalog# / Size	506531 / 100 µg 506532 / 1 mg 506533 / 5 mg 506534 / 25 mg 506535 / 50 mg 506536 / 100 mg
Clone	B27
Regulatory Status	RUO
Other Names	Interferon-γ, Immune interferon, Type II interferon, T cell interferon, Macrophage-activating factor (MAF), IFN-g, IFN-gamma
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee, Baboon, Cynomolgus, Rhesus, African Green, Pigtailed Macaque, Sooty Mangabey
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	<i>E. coli</i> -expressed recombinant human IFN-γ
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.01 EU/µg of the protein (<0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	ICFC - Quality tested FC, Neut - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Flow Cytometry ² : 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 ^{1,3,6,7} : The Ultra-LEAF™ Purified antibody (Endotoxin <0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of human IFN-γ bioactivity (Cat. No. 506531).
Application References	1. Favre C, <i>et al.</i> 1989. <i>Molec. Immunol.</i> 26:17. (Neut) 2. Kaur A, <i>et al.</i> 2002. <i>J Virol.</i> 76:3646.

- Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5. (Neut)
- Andersson U, *et al.* 1999. *Detection and quantification of gene expression*. New York:Springer-Verlag.
- Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)
- Acosta-Rodriguez EV, *et al.* 2007. *Nat. Immunol.* 9:942-9. (Neut)
- Gangur V, *et al.* 1998. *FASEB J.* 12:705-13. (Neut)

Product Citations

- Gruber CN, *et al.* 2020. *Cell.* 183:982. [PubMed](#)

RRID

AB_2801091 (BioLegend Cat. No. 506531)
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 AB_2801096 (BioLegend Cat. No. 506536)

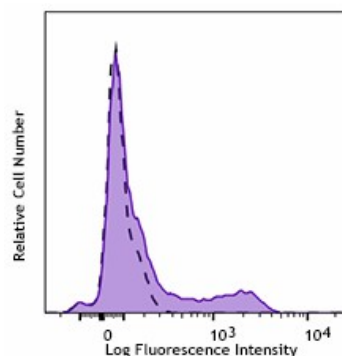
Antigen Details

Structure	Cytokine; dimer; 20-25 kD (Mammalian)
Bioactivity	Antiviral/antiparasitic activities; inhibits proliferation; enhances MHC class I and II expression on APC
Cell Sources	CD8 ⁺ and CD4 ⁺ T cells, NK cells
Cell Targets	T cells, B cells, macrophages, NK cells, endothelial cells, fibroblasts
Receptors	IFN- γ R α (CDw119) dimerized with IFN- γ R β (AF-1)
Cell Type	Tregs
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> Fitzgerald K, <i>et al.</i> Eds. 2001. <i>The Cytokine FactsBook</i>. Academic Press San Diego. De Maeyer E, <i>et al.</i> 1992. <i>Curr. Opin. Immunol.</i> 4:321. Farrar M, <i>et al.</i> 1993. <i>Annu. Rev. Immunol.</i> 11:571. Gray P, <i>et al.</i> 1987. <i>Lymphokines</i> 13:151.
Regulation	Upregulated by IL-2, FGF-basic, EGF; downregulated by vitamin D3 or DMN; labile at pH2
Gene ID	3458

Other Formats

APC anti-human IFN- γ , FITC anti-human IFN- γ , PE anti-human IFN- γ , Purified anti-human IFN- γ , Alexa Fluor® 700 anti-human IFN- γ , PE/Cyanine7 anti-human IFN- γ , Purified anti-human IFN- γ (Maxpar® Ready), APC/Cyanine7 anti-human IFN- γ , Pacific Blue™ anti-human IFN- γ , PerCP/Cyanine5.5 anti-human IFN- γ , PE/Dazzle™ 594 anti-human IFN- γ , Ultra-LEAF™ Purified anti-human IFN- γ , Brilliant Violet 605™ anti-human IFN- γ , Brilliant Violet 510™ anti-human IFN- γ , Brilliant Violet 421™ anti-human IFN- γ

Product Data



PMA+ionomycin-stimulated human peripheral blood lymphocytes (6-hours), in the presence of monensin, were fixed, permeabilized, and then intracellularly stained with IFN- γ (clone B27) Purified (filled histogram), or mouse IgG1, κ PerCP/Cyanine5.5 isotype control (open histogram) followed by anti-mouse IgG FITC.

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