

PE anti-human IFN- γ Antibody

Catalog# / Size	506506 / 25 tests 506507 / 100 tests
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	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
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^{1,3,6,7}: The Ultra-LEAF™ Purified antibody (Endotoxin <0.01 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for neutralization of human IFN- γ bioactivity (Cat. No. 506531).
Application References	<ol style="list-style-type: none"> 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. 3. Abrams J, <i>et al.</i> 1992. <i>Immunol. Rev.</i> 127:5. (Neut) 4. Andersson U, <i>et al.</i> 1999. <i>Detection and quantification of gene expression</i>. New York:Springer-Verlag. 5. Rout N, <i>et al.</i> 2010. <i>PLoS One</i> 5:e9787. (FC) 6. Acosta-Rodriguez EV, <i>et al.</i> 2007. <i>Nat. Immunol.</i> 9:942-9. (Neut) 7. Gangur V, <i>et al.</i> 1998. <i>FASEB J.</i> 12:705-13. (Neut)
(PubMed link indicates BioLegend citation)	

Product Citations

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RRID AB_315439 (BioLegend Cat. No. 506506)
 AB_315440 (BioLegend Cat. No. 506507)

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-γRα (CDw119) dimerized with IFN-γRβ (AF-1)
Cell Type	Tregs
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press San Diego. 2. De Maeyer E, <i>et al.</i> 1992. <i>Curr. Opin. Immunol.</i> 4:321. 3. Farrar M, <i>et al.</i> 1993. <i>Annu. Rev. Immunol.</i> 11:571. 4. 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

Related Protocols

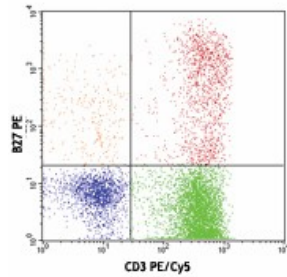
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

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 (6 hours) human peripheral blood lymphocytes were surface stained with CD3 PE/Cy5 and then intracellularly stained with B27 PE

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