

APC/Cyanine7 anti-human IFN-γ Recombinant Antibody

Catalog# / Size	309055 / 25 tests 309056 / 100 tests
Clone	QA21A01
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.

Product Details

Verified Reactivity	Human
Antibody Type	Recombinant
Host Species	Mouse
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 APC/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Flow Cytometry: Clone QA21A01 does not block the staining of clones 4S.B3, B27, or W19227A, but partially blocks the staining of clone W19227C. ELISA and ELISPOT Capture: The QA21A01 recombinant antibody is useful as the capture antibody in a sandwich ELISA assay, when used in conjunction with the biotinylated 4S.B3 antibody (Cat. No. 502504) as the detecting antibody and recombinant human IFN-γ (Cat. No. 570209) as the standard. For ELISPOT capture applications, a concentration range of 0.5 – 2.0 µg/mL is recommended.

Antigen Details

Structure	Cytokine; dimer; 20-25 kD (Mammalian)
Distribution	CD8+ and CD4+ T cells, NK cells

Function	Antiviral/antiparasitic activities; inhibits proliferation; enhances MHC class I and II expression on APC. Upregulated by IL-2, FGF-basic, EGF; downregulated by vitamin D3 or DMN; labile at pH2.
Interaction	T cells, B cells, macrophages, NK cells, endothelial cells, fibroblasts
Ligand/Receptor	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	1. Fitzgerald K, <i>et al.</i> 2001. <i>The Cytokine FactsBook</i>. Academic Press San Diego. 2. De Maeyer E, <i>et al.</i> 1992. <i>Curr Opin Immunol.</i> 4:321-6. 3. Farrar M, <i>et al.</i> 1993. <i>Annu Rev Immunol.</i> 11:11:571-611. 4. Gray P, <i>et al.</i> 1987. <i>Lymphokines.</i> 13:151.
Gene ID	3458

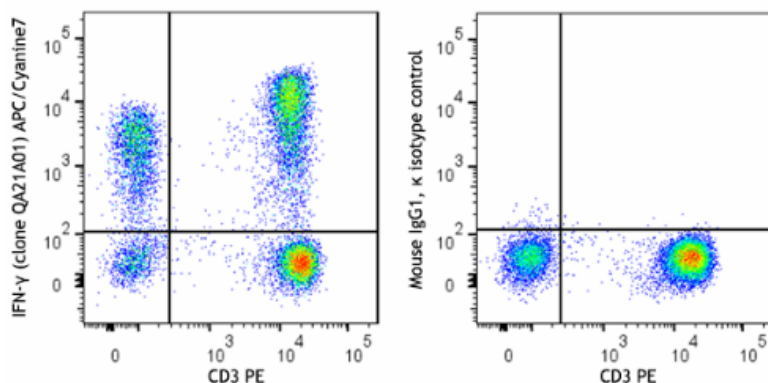
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

APC/Cyanine7 anti-human IFN- γ Recombinant Antibody, PE anti-human IFN- γ Recombinant Antibody, APC anti-human IFN- γ Recombinant Antibody, Ultra-LEAF™ Purified anti-human IFN- γ Recombinant Antibody, Alexa Fluor® 488 anti-human IFN- γ Recombinant Antibody

Product Data



Human peripheral blood cells were stimulated with Cell Activation Cocktail (with Brefeldin A) (Cat. No. 423303) for 6 hours and surface stained with anti-human CD3 (clone UCHT1) PE. Cells were then fixed and permeabilized with Cyto-Fast™ Fix/Perm Buffer Set (Cat No. 426803) and intracellularly stained with anti-human IFN- γ recombinant (clone QA21A01) APC/Cyanine7 (left) or mouse IgG1, κ APC/Cyanine7 isotype control (right). Data shown is gated on the lymphocyte population.

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587