

Purified anti-mouse IFN- γ Antibody

Catalog# / Size	513202 / 100 μ g
Clone	H22
Regulatory Status	RUO
Other Names	Interferon- γ , Immune interferon, Type II interferon, T cell interferon, Macrophage-activating factor (MAF)
Isotype	Armenian Hamster IgG
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	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	Recombinant full-length murine IFN- γ
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	WB - Quality tested ELISA, ICC, IP - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 0.5 μ g per mL. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	The purified H22 antibody is useful in mouse IFN- γ ELISA, immunofluorescence and immunoprecipitation applications. For <i>in vitro</i> or <i>in vivo</i> neutralization applications, it is suggested to use LEAF™ Purified H22. It is recommended that the reagent be titrated for optimal performance for each application.
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none">Schreiber RD, <i>et al.</i> 1985. <i>J. Immunol.</i> 134:1609.Williams RO, <i>et al.</i> 1993. <i>Clin. Exp. Immunol.</i> 92:323Steed AL, <i>et al.</i> 2006. <i>J. Virol.</i> 80:192.Wu LL, <i>et al.</i> 2014. <i>Am J Pathol.</i> 184:2260. PubMed
Product Citations	<ol style="list-style-type: none">Fu Y, <i>et al.</i> 2020. <i>Mol Ther.</i> 1214:28. PubMedChang Q, <i>et al.</i> 2020. <i>Scand J Immunol.</i> 92:e12877. PubMedWu L, <i>et al.</i> 2014. <i>Am J Pathol.</i> 184:2260. PubMed
RRID	AB_1089144 (BioLegend Cat. No. 513202)

Antigen Details

Structure	Cytokine; dimer; 40-80 kD (Mammalian)
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Function	Upregulated by IL-2, FGF-basic, EGF; downregulated by 1- α -25-Dihydroxy vitamin D3, dexamethasone
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)
Bioactivity	Antiviral/antiparasitic activities; inhibits proliferation; enhances MHC class I and II expression on APC
Cell Sources	CD8 ⁺ and CD4 ⁺ T cells, NK cells
Biology Area	Immunology
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
Gene ID	15978

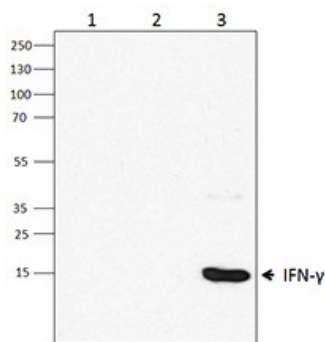
Related Protocols

[Western Blotting Protocol](#)

Other Formats

Purified anti-mouse IFN- γ , Ultra-LEAF™ Purified anti-mouse IFN- γ

Product Data



Western blot analysis of 50 ng recombinant human IFN- γ (carrier-free) (lane 1), recombinant rat IFN- γ (carrier-free) (lane 2), and recombinant mouse IFN- γ (carrier-free) (lane 3) using anti-mouse IFN- γ (clone H22) antibody followed by HRP goat anti-Armenian hamster IgG secondary antibody.

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