

## Ultra-LEAF™ Purified anti-mouse IFN-γ Antibody

<b>Catalog# / Size</b>	513207 / 100 µg 513208 / 1 mg 513209 / 5 mg 513210 / 25 mg 513211 / 50 mg 513212 / 100 mg
<b>Clone</b>	H22
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Interferon-γ, Immune interferon, Type II interferon, T cell interferon, Macrophage-activating factor (MAF)
<b>Isotype</b>	Armenian Hamster IgG
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Armenian Hamster
<b>Immunogen</b>	Recombinant full-length murine IFN-γ
<b>Formulation</b>	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.
<b>Preparation</b>	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
<b>Concentration</b>	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 <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
<b>Application</b>	<a href="#">WB - Quality tested</a> <a href="#">Neut, ELISA, ICC, IP - Reported in the literature, not verified in house</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . For Western blotting, the suggested use of this reagent is 0.5 µg per mL. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	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.
<b>Application References</b>	1. Schreiber RD, <i>et al.</i> 1985. <i>J. Immunol.</i> 134:1609. 2. Williams RO, <i>et al.</i> 1993. <i>Clin. Exp. Immunol.</i> 92:323 3. Steed AL, <i>et al.</i> 2006. <i>J. Virol.</i> 80:192. 4. Wu LL, <i>et al.</i> 2014. <i>Am J Pathol.</i> 184:2260. <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2810645 (BioLegend Cat. No. 513207) AB_2810646 (BioLegend Cat. No. 513208) AB_2810647 (BioLegend Cat. No. 513209) AB_2810648 (BioLegend Cat. No. 513210)

AB\_2810649 (BioLegend Cat. No. 513211)  
AB\_2810650 (BioLegend Cat. No. 513212)

## Antigen Details

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<b>Structure</b>	Cytokine; dimer; 40-80 kD (Mammalian)
<b>Function</b>	Upregulated by IL-2, FGF-basic, EGF; downregulated by 1- $\alpha$ -25-Dihydroxy vitamin D3, dexamethasone
<b>Interaction</b>	T cells, B cells, macrophages, NK cells, endothelial cells, fibroblasts
<b>Ligand/Receptor</b>	IFN- $\gamma$ R $\alpha$ (CDw119) dimerized with IFN- $\gamma$ R $\beta$ (AF-1)
<b>Bioactivity</b>	Antiviral/antiparasitic activities; inhibits proliferation; enhances MHC class I and II expression on APC
<b>Cell Sources</b>	CD8 <sup>+</sup> and CD4 <sup>+</sup> T cells, NK cells
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	Cytokines/Chemokines
<b>Antigen References</b>	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
<b>Gene ID</b>	<a href="#">15978</a>

## Related Protocols

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[Western Blotting Protocol](#)

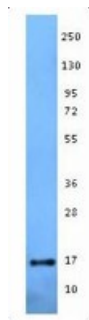
## Other Formats

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Purified anti-mouse IFN- $\gamma$ , Ultra-LEAF™ Purified anti-mouse IFN- $\gamma$

## Product Data

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Recombinant Mouse IFN- $\gamma$  was resolved by electrophoresis, transferred to nitrocellulose, and probed with anti-mouse IFN- $\gamma$  antibody (clone H22). Proteins were visualized using a goat anti-Armenian hamster IgG secondary conjugated to HRP and chemiluminescence detection.

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

