Interferon Gamma (IFNG) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Interferon Gamma (IFNG), Polyclonal Antibody
Full Product Name	Anti-Interferon Gamma Antibody, Rabbit Polyclonal
Product Gene Name	anti-IFNG antibody
Product Synonym Names	IFN gamma/IFNG Antibody, Rabbit PAb, Antigen Affinity Purified; interferon, gamma; Anti-Ifg Antibody; Anti-IFN-g Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse IFN gamma/IFNG
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	17,907 Da
Immunogen	Recombinant Mouse IFN gamma/IFNG Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse IFN gamma/IFNG (rM IFN gamma/IFNG). IFN gamma/IFNG specific IgG was purified by Mouse IFN gamma/IFNG affinity chromatography.
Product Categories/Family for anti-IFNG antibody	Neuroinflammation; IL12 signaling pathway
Applications Tested/Suitable for anti-IFNG antibody	ELISA (EIA)
Application Notes for anti-IFNG antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-IFNG antibody	IFN gamma, also known as IFNG, is a secreted protein that belongs to the type II interferon family. IFN gamma is produced predominantly by natural killer and natural killer T cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte effector T cells once antigen-specific immunity develops. IFN gamma has antiviral, immunoregulatory, and anti-tumor properties. IFNG, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. The IFNG monomer consists of a core of six alpha-helices and an extended unfolded sequence in the C-terminal region. IFN gamma is critical for innate and adaptive immunity against viral and intracellular bacterial infections and tumor control. Aberrant IFN gamma expression is associated with some autoinflammatory and autoimmune diseases. The importance of IFN gamma in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. IFNG also promotes NK cell activity.

Product References and Citations for anti-IFNG antibody	Gray P W, et al. (1982) Structure of the human immune interferon gene. Nature. 298: 859-63. Taya Y, et al. (1982) Cloning and structure of the human immune interferon-gamma chromosomal gene. EMBO J. 1: 953-8. Goshima N, et al. (2008) Human protein factory for converting the transcriptome into an in vitro-expressed proteome. Nomura N Nat Methods. 5: 1011-7. Thiel DJ, et al. (2000) Observation of an unexpected third receptor molecule in the crystal structure of human interferon-gamma receptor complex. Structure. 8 (9): 927-36. Naylor SL, et al. (1983) Human immune interferon gene is located on chromosome 12. J Exp Med. 157 (3): 1020-7. Schoenborn JR, et al. (2007) Regulation of interferon-gamma during innate and adaptive immune responses. Adv Immunol. 96: 41-101.
Other Notes	Small volumes of anti-IFNG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IFNG purchase	MBS8111955 is an antibody targeting IFNG. Also known as Anti-Interferon Gamma Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFNG. It may not necessarily be applicable to this product.

NCBI GI #	33468859
NCBI GeneID	15978
NCBI Accession #	NP_032363.1
UniProt Secondary Accession #	Q542B8
UniProt Related Accession #	P01580
GenBank Nucleotide #	NM_008337.3
NCBI Official Full Name	interferon gamma
NCBI Official Synonym Full Names	interferon gamma
NCBI Official Symbol	Ifng
NCBI Official Synonym Symbols	Ifg; IFN-g
Protein Family	Interferon
NCBI Protein Information	interferon gamma; IFN-gamma; gamma interferon
NCBI Summary for IFNG	This gene encodes a soluble cytokine that is a member of the type II interferon class. The encoded protein is secreted by cells of the both the innate and adaptive immune systems. The active protein is a homodimer that binds to the interferon gamma receptor which triggers a cellular response to viral and microbial inflections. Mice deficient in this gene have increased susceptibility to viral, bacterial and parasitic infections and to several autoimmune diseases. [provided by RefSeq, Sep 2015]
Research Articles on IFNG	**1.** Induction of IFNG production by U0126 inhibits tumor growth in a mouse model.
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