IFN Gamma (IFNG) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IFN gamma (IFNG), Polyclonal Antibody
Full Product Name	IFN gamma (Immune interferon) (FITC)
Product Gene Name	anti-IFNG antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human IFN gamma. No crossreactivity with other proteins.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, store at 4 degree C for one month. Can also be aliquoted and stored frozen at -20 degree C for long term.
Molecular Weight	19,348 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (68548550..68553521, complement). Location: 12q14
OMIM	147570
3D Structure	ModBase 3D Structure for P01579
Immunogen	E. coli-derived human IFNgamma recombinant protein (Position: Q24-Q166).
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-IFNG antibody	Antibodies; Interferon
Applications Tested/Suitable for anti-IFNG antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC) Paraffin, Neutralization, Immunoprecipitation (IP)
Application Notes for anti-IFNG antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-IFNG antibody	MBS6404394 is an antibody targeting IFNG. Also known as IFN gamma (Immune interferon) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-IFNG antibody	1. Awad, M.; Pravica, V.; Perrey, C.; El Gamel, A.; Yonan, N.; Sinnott, P. J.; Hutchinson, I. V. CA repeat allele polymorphism in the first intron of the human interferon-gamma gene is associated with lung allograft fibrosis. Hum. Immunol. 60: 343-346, 1999. 2. Szabo, S. J.; Sullivan, B. M.; Stemmann, C.; Satoskar, A. R.; Sleckman, B. P.; Glimcher, L. H. Distinct effects of T-bet in T(H)1 lineage commitment and IFN-gamma production in CD4 and CD8 T cells. Science 295: 338-342, 2002. 3. Rossouw, M.; Nel, H. J.; Cooke, G. S.; van Helden, P. D.; Hoal, E. G. Association between tuberculosis and a polymorphic NF-kappa-B binding site in the interferon gamma gene. Lancet 361: 1871-1872, 2003. 4. Nathan, C. F.; Murray, H. W.; Wiebe, M. E.; Rubin, B. Y. Identification of interferon-gamma as the lymphokine that activates human macrophage oxidative metabolism and antimicrobial activity. J. Exp. Med. 158: 670-689, 1983. 5. Zohlnhofer, D.; Richter, T.; Neumann, F.-J.; Nuhrenberg, T.; Wessely, R.; Brandl, R.; Murr, A.; Klein, C. A.; Baeuerle, P. A. Transcriptome analysis reveals a role of interferon-gamma in human neointima formation. Molec. Cell 7: 1059-1069, 2001.

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.

ADDITIONAL DETAILS

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

NCBI GI #	56786138
NCBI GeneID	3458
NCBI Accession #	NP_000610.2
UniProt Primary Accession #	P01579
UniProt Secondary Accession #	Q53ZV4; B5BU88
UniProt Related Accession #	P01579
GenBank Nucleotide #	NM_000619.2
NCBI Official Full Name	interferon gamma
NCBI Official Synonym Full Names	interferon, gamma
NCBI Official Symbol	IFNG
NCBI Official Synonym Symbols	IFG; IFI
UniProt Protein Name	Interferon gamma
UniProt Synonym Protein Names	Immune interferon
Protein Family	Interferon
UniProt Gene Name	IFNG
UniProt Synonym Gene Names	IFN-gamma
UniProt Entry Name	IFNG_HUMAN
NCBI Protein Information	interferon gamma; IFN-gamma; immune interferon
NCBI Summary for IFNG	This gene encodes a member of the type II interferon family. The protein encoded is a soluble cytokine with antiviral, immunoregulatory and anti-tumor properties and is a potent activator of macrophages. Mutations in this gene are associated with aplastic anemia.[provided by RefSeq, Nov 2009]

UniProt Comments for IFNG	IFNG: Produced by lymphocytes activated by specific antigens or mitogens. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions. It is a potent activator of macrophages, it has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. Homodimer. Released primarily from activated T lymphocytes. Belongs to the type II (or gamma) interferon family. Protein type: Cytokine; Secreted; Membrane protein, integral; Secreted, signal peptide Chromosomal Location of Human Ortholog: 12q14 Cellular Component: extracellular space; extracellular region; external side of plasma membrane Molecular Function: interferon-gamma receptor binding; cytokine activity Biological Process: positive regulation of isotype switching to IgG isotypes; positive regulation of nitric oxide biosynthetic process; positive regulation of osteoclast differentiation; negative regulation of smooth muscle cell proliferation; apoptosis; positive regulation of interleukin-23 production; positive regulation of interleukin-12 production; positive regulation of interleukin-6 biosynthetic process; negative regulation of epithelial cell differentiation; negative regulation of transcription from RNA polymerase II promoter; positive regulation of killing of cells of another organism; sensory perception of mechanical stimulus; positive regulation of interleukin-1 beta secretion; positive regulation of membrane protein ectodomain proteolysis; cell surface receptor linked signal transduction; positive regulation of MHC class II biosynthetic process; positive regulation of cell proliferation; positive regulation of mesenchymal cell proliferation; positive regulation of T cell proliferation; cell cycle arrest; defense response to virus; regulation of the force of heart contraction; positive regulation of peptidyl-serine phosphorylation of STAT protein; response to drug; neutrophil chemotaxis; positive regulation of synaptic transmission, cholinergic; adaptive immune response; negative regulation of myelination; CD8-positive, alpha-beta T cell differentiation during immune response; unfolded protein response; response to virus; cytokine and chemokine mediated signaling pathway; positive regulation of tumor necrosis factor production; defense response to protozoan; humoral immune response; antigen processing and presentation; positive regulation of tyrosine phosphorylation of Stat1 protein; positive regulation of chemokine biosynthetic process; positive regulation of interleukin-12 biosynthetic process; negative regulation of interleukin-17 production; protein import into nucleus, translocation; defense response to bacterium; neutrophil apoptosis; positive regulation of transcription from RNA polymerase II promoter; positive regulation of neuron differentiation; cell motility; regulation of insulin secretion Disease: Hepatitis C Virus, Susceptibility To; Aplastic Anemia; Mycobacterium Tuberculosis, Susceptibility To; Tuberous Sclerosis 2; Human Immunodeficiency Virus Type 1, Susceptibility To
Research Articles on IFNG	**1.** we observed the presence of the A allele in most cases that developed retinochoroiditis, which corroborates earlier studies and suggests that individuals with this allele in its homozygous form have a tendency to develop ocular lesions
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