

Anti-Interferon gamma (IFNG) Antibody
Mouse Monoclonal Antibody
Catalog # AH13311

Specification

Anti-Interferon gamma (IFNG) Antibody - Product Information

Application ,14,3,4,
Primary Accession [P01579](#)
Other Accession [856](#)
Reactivity Human
Host Mouse
Clonality Monoclonal
Isotype Mouse / IgG2b,
kappa
Calculated MW 19348

Anti-Interferon gamma (IFNG) Antibody - Additional Information

Gene ID 3458

Other Names

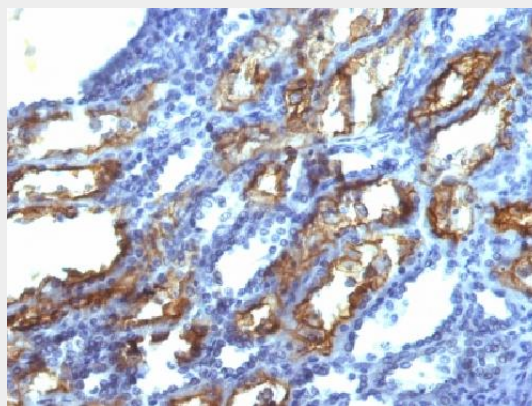
AMCF1; Beta thromboglobulin like protein;
CXC chemokine ligand 8 (CXCL8);
Emoctakin; Granulocyte chemotactic
protein 1 (GCP1); IFG; IFI; IFN Immune;
IFN-gamma (IFNG); Interleukin 8; Interferon
gamma; LECT; LUCT; Lymphocyte derived
neutrophil activating factor; LYNAP;
Macrophage Activating Factor (MAF);
Monocyte derived neutrophil activating
protein (MONAP); Monocyte derived
neutrophil chemotactic factor (MDNCF);
Neutrophil activating factor (NAF);
Neutrophil activating peptide 1 (NAP1);
Neutrophil activating protein 1 (NAP1);
SCYB8; T cell chemotactic factor; T Cell
Interferon; Type II Interferon

Format

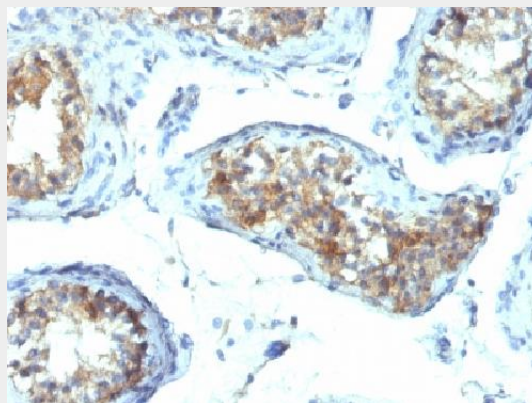
200ug/ml of Ab purified from Bioreactor
Concentrate by Protein A/G. Prepared in
10mM PBS with 0.05% BSA & 0.05% azide.
Also available WITHOUT BSA & azide at
1.0mg/ml.

Storage

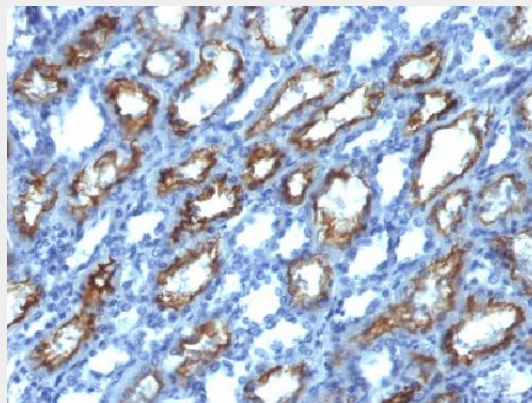
Store at 2 to 8°C. Antibody is stable for 24
months.



Formalin-fixed, paraffin-embedded human
Renal Cell Carcinoma stained with Interferon
gamma Monoclonal Antibody (IFNG/466)



Formalin-fixed, paraffin-embedded human
Testicular Carcinoma stained with Interferon
gamma Monoclonal Antibody (IFNG/466)



Precautions

Anti-Interferon gamma (IFNG) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-Interferon gamma (IFNG) Antibody - Protein Information

Name IFNG

Function

Type II interferon produced by immune cells such as T-cells and NK cells that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation (PubMed:[16914093](http://www.uniprot.org/citations/16914093), PubMed:[8666937](http://www.uniprot.org/citations/8666937)). Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation (PubMed:[8349687](http://www.uniprot.org/citations/8349687)). Upon IFNG binding, IFNGR1 intracellular domain opens out to allow association of downstream signaling components JAK2, JAK1 and STAT1, leading to STAT1 activation, nuclear translocation and transcription of IFNG-regulated genes. Many of the induced genes are transcription factors such as IRF1 that are able to further drive regulation of a next wave of transcription (PubMed:[16914093](http://www.uniprot.org/citations/16914093)). Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits (PubMed:[8666937](http://www.uniprot.org/citations/8666937)). In turn, increases the quantity, quality, and repertoire of peptides for class I MHC loading (PubMed:[8163024](http://www.uniprot.org/citations/8163024)). Increases the efficiency of peptide generation also by inducing the expression of activator PA28 that associates with the proteasome and alters its proteolytic cleavage preference (PubMed:[11112687](http://www.uniprot.org/citations/11112687)).

Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with Interferon gamma Monoclonal Antibody (IFNG/466)

Anti-Interferon gamma (IFNG) Antibody - Background

Recognizes a protein of 20-25kDa, identified as human interferon. This MAb is specific to human IFN- γ and recognizes both recombinant and native human IFN-gamma. T lymphocytes and NK cells mainly produce IFN- γ . It is a pleiotropic cytokine involved in the regulation of nearly all phases of immune and inflammatory responses, including the activation, growth and differentiation of T cell, B cells, macrophages, NK cells and other cell types such as endothelial cells and fibroblasts. It has weak anti-viral and anti-proliferative activity, and potentiates the antiviral and anti-tumor effects of IFN- α/β (type I interferon).

target="_blank">11112687).
Up-regulates as well MHC II complexes on the cell surface by promoting expression of several key molecules such as cathepsins B/CTSB, H/CTSH, and L/CTSL (PubMed:7729559).
Participates in the regulation of hematopoietic stem cells during development and under homeostatic conditions by affecting their development, quiescence, and differentiation (By similarity).

Cellular Location

Secreted.

Tissue Location

Released primarily from activated T lymphocytes.

Anti-Interferon gamma (IFNG) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)