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IFN gamma Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10839

Specification

IFN gamma Antibody - Product Information

Application	**WB**
Primary Accession	P01580
Other Accession	NP_032363
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**17907**

IFN gamma Antibody - Additional Information

Gene ID 15978

Application & Usage	**Western blot analysis (0.5-4 µg/ml). Recombinant human IFN-gamma can be used as a positive control. However, the optimal conditions should be determined individually.**

Other Names
Interferon gamma, IFNg, IFN-gamma, IFN gamma

Target/Specificity
IFNg

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) antigen affinity purified rabbit anti-murine IFN-gamma polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, and 0.02% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions

IFN gamma Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IFN gamma 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:11585387, PubMed:8456301). Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation. 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. Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits. In turn, increases the quantity, quality, and repertoire of peptides for class I MHC loading. 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. 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 (By similarity). Participates in the regulation of hematopoietic stem cells during development and under homeostatic conditions by affecting their development, quiescence, and differentiation (PubMed:20535209, PubMed:25078851).

Cellular Location
Secreted {ECO:0000250|UniProtKB:P01579}.

Tissue Location
Released primarily from activated T lymphocytes.

IFN gamma 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 Cytomety
- Cell Culture

IFN gamma Antibody - Images

IFN gamma Antibody - Background

IFN-gamma is a lymphoid factor that possesses potent anti-viral activity. It has also been shown that INF-gamma stimulates microphages and NK cells. Human IFN-gamma is a 16.9 kDa protein

containing 144 amino acid residues.