

IFN gamma Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10838**Specification**

IFN gamma Antibody - Product Information

Application	WB
Primary Accession	P01579
Other Accession	CAA31639
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	19348

IFN gamma Antibody - Additional Information**Gene ID** 3458**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

200 µg (0.5 mg/ml) affinity purified rabbit anti-human IFN-gamma polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol and 0.01% 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:16914093, PubMed:8666937). Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation (PubMed: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). Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits (PubMed:8666937). In turn, increases the quantity, quality, and repertoire of peptides for class I MHC loading (PubMed: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). 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.

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 Cytometry](#)
- [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.