

Product Name: IFN- γ Rabbit Polyclonal Antibody
Catalog #: APRab12403



Summary

Production Name	IFN- γ Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC, WB, ELISA
Reactivity	Human, Rat, Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	IFNG
Alternative Names	IFNG; Interferon gamma; IFN-gamma; Immune interferon
Gene ID	3458.0
SwissProt ID	P01579. The antiserum was produced against synthesized peptide derived from human IFN-gamma. AA range: 20-69

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000..
Molecular Weight	17kD

Background

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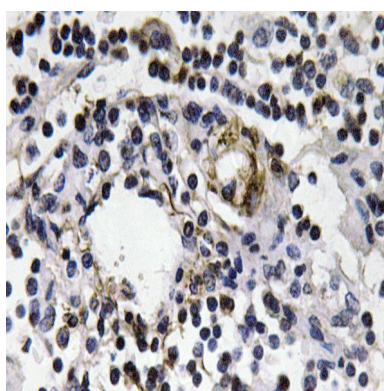


This gene encodes a soluble cytokine that is a member of the type II interferon class. The encoded protein is secreted by cells of both the innate and adaptive immune systems. The active protein is a homodimer that binds to the interferon gamma receptor which triggers a cellular response to viral and microbial infections. Mutations in this gene are associated with an increased susceptibility to viral, bacterial and parasitic infections and to several autoimmune diseases. [provided by RefSeq, Dec 2015],disease:In Caucasians, genetic variation in IFNG is associated with the risk of aplastic anemia (AA) [MIM:609135]. AA is a rare disease in which the reduction of the circulating blood cells results from damage to the stem cell pool in bone marrow. In most patients, the stem cell lesion is caused by an autoimmune attack. T-lymphocytes, activated by an endogenous or exogenous, and most often unknown antigenic stimulus, secrete cytokines, including IFN-gamma, which would in turn be able to suppress hematopoiesis.,function: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.,online information:Interferon gamma entry,pharmaceutical:Available under the name Actimmune (Genentech). Used for reducing the frequency and severity of serious infections associated with chronic granulomatous disease (CGD).,PTM:Proteolytic processing produces C-terminal heterogeneity, with proteins ending alternatively at Gly-150, Met-157 or Gly-161.,similarity:Belongs to the type II (or gamma) interferon family.,subunit:Homodimer.,tissue specificity:Released primarily from activated T lymphocytes.,

Research Area

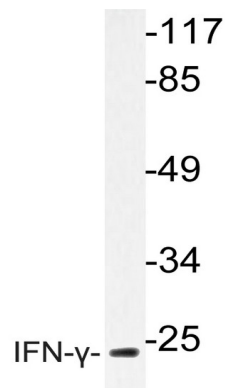
Proteasome;Cytokine-cytokine receptor interaction;Regulation of autophagy;TGF-beta;Jak_STAT;Natural killer cell mediated cytotoxicity;T_Cell_Receptor;Type I diabetes mellitus;Systemic lupus erythematosus;Allograft rejection;Graft-versus-host disease;

Image Data

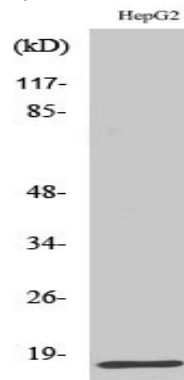


Immunohistochemistry analysis of IFN- γ antibody in paraffin-embedded human lymph node tissue.

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Western blot analysis of lysate from HepG2 cells, using IFN- γ antibody.



Western Blot analysis of various cells using IFN- γ Polyclonal Antibody diluted at 1: 1000

Note

For research use only.