



Anti-Human IFN-gamma

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P27
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure recombinant Human IFN-γ. Anti-Human IFN-γ specific antibody was purified by affinity chromatography employing immobilized Human IFN-γ matrix.

Target Background

Synonyms (Target):	IFNG; IFG; IFI;
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IFN-γ is an acid-labile interferon produced by CD4 and CD8 T lymphocytes as well as activated NK cells. IFN-γ receptors are present in most immune cells, which respond to IFN-γ signaling by increasing the surface expression of class I MHC proteins. This promotes the presentation of antigen to T-helper (CD4+) cells. IFN-γ signaling in antigen-presenting cells and antigen-recognizing B and T lymphocytes regulate the antigen-specific phases of the immune response. Additionally, IFN-γ stimulates a number of lymphoid cell functions including the anti-microbial and anti-tumor responses of macrophages, NK cells, and neutrophils. Human IFN-γ species-specific and is biologically active only in human and primate cells. Recombinant human IFN-γ is a 16.7 kDa protein containing 143 amino acid residues.

Database References Target

Protein RefSeq:	NP_000610.2
Uniprot ID:	P01579
mRNA RefSeq:	NM_000619

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant human IFN-gamma
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Immunohistochemistry: This antibody stained formalin-fixed, paraffin-embedded sections of human cervical squamous cell carcinoma. The recommended concentration is 0.5 µg/ml-0.25µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with a DAB chromogen. Heat induced antigen retrieval with a pH 6.0 sodium citrate buffer is recommended. Optimal concentrations and conditions may vary.

Tissue samples were provided by the Cooperative Human Tissue Network, which is funded by the National Cancer Institute.

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of human IFN-γ (10 ng/ml), a concentration of 0.13 - 0.20 mg/ml of this antibody is required.

Western Blot: To detect human IFN-γ by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents, the detection limit for recombinant human IFN-γ is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

Sandwich ELISA: To detect human IFN-gamma by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 – 2.0 mg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant human IFN-γ.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!