



Anti-Human IFN-gamma

20150304ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	101-M169
Size:	500 µg
Lot. No.:	According to product label

Preparation: Produced in BALB/c mice using highly pure (>98%) recombinant human IFN-gamma as the immunizing antigen. This IgG1K antibody was purified from ascites fluid by antigen affinity chromatography.

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
Cross reactivity	Human
Host	Mouse
Clonality	Monoclonal Antibody
Purification	Protein A chromatography
Immunogen	Recombinant human IFN-gamma
Formulation	lyophilized
Reconstitution buffer	water

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

Stability: Lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least 2 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

ELISA: In a sandwich ELISA (assuming 100 µl/well), a concentration of 2 - 4 µg/ml of this antibody will detect at least 100 pg/ml of recombinant human IFN- γ when used in conjunction with compatible secondary reagents.

Western Blot: To detect hIFN- γ by Western Blot analysis this antibody can be used at a concentration of 0.2 - 0.4 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hIFN- γ is 2 - 4 ng/lane, under non-reducing conditions.

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