

产品名称: Interferon gamma (16O15) Rabbit Monoclonal Antibody
产品货号: AMRe12684



产品概述 (Summary)

产品名称 (Production Name)	Interferon gamma (16O15) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	IHC, IF-P
种属反应性 (Reactivity)	Human

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	IFNG
别名 (Alternative Names)	IFG; IFI; IFN gamma; IFN, immune; IFN-gamma; IFNG; Immune interferon; Interferon gamma;
基因 ID (Gene ID)	3458.0
蛋白 ID (SwissProt ID)	P01579.

产品应用 (Application)

稀释比 (Dilution Ratio)	IHC 1:200-1:500, IF-P 1:200-1:500
蛋白分子量 (Molecular Weight)	19kDa

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研究背景 (Background)

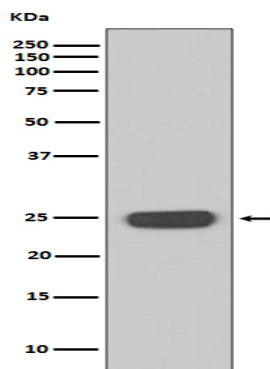
Interferon (IFN)- γ is an antiviral and antiparasitic agent produced by CD4⁺/CD8⁺ lymphocytes and natural killer cells that undergo activation by antigens, mitogens or alloantigens. It is a potent activator of macrophages, it has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. 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](http://www.uniprot.org/citations/16914093), PubMed: [8666937](http://www.uniprot.org/citations/8666937)). Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation (PubMed: [8349687](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/16914093)). Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits (PubMed: [8666937](http://www.uniprot.org/citations/8666937)). In turn, increases the quantity, quality, and repertoire of peptides for class I MHC loading (PubMed: [8163024](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/7729559)). Participates in the regulation of hematopoietic stem cells during development and under homeostatic conditions by affecting their development, quiescence, and differentiation (By similarity).

研究领域 (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;

图片 (Image Data)

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Western blot analysis of Interferon gamma expression in Jurkat cell lysate.

注意事项 (Note)

For research use only .