

## Product datasheet for **TA332378**

### Interferon gamma (IFNG) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB 1:500 - 1:2000;IHC 1:50 - 1:100
Reactivity:	Mouse, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human IFNG
Formulation:	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	19 kDa
Gene Name:	interferon, gamma
Database Link:	<a href="#">NP_000610</a> <a href="#">Entrez Gene 15978 Mouse</a> <a href="#">Entrez Gene 3458 Human</a> <a href="#">P01579</a>



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**Background:**

systematically early after viral infection and participate in limiting the spread of infection. They also affect cell differentiation, growth, surface antigen expression and immunoregulation (1). There are three naturally occurring interferons:  $\hat{1}\pm$ ,  $\hat{1}^2$  and  $\hat{1}^3$ . IFN- $\hat{1}\pm$  is derived from lymphoblastic tissue and has a number of therapeutic applications in the treatment of various human cancers and diseases of viral origin. Recombinant IFN- $\hat{1}\pm$  from both natural and synthetic genes binds to a common cell surface receptor and induces antiviral activity in a variety of cell lines. When binding to discrete cell surface receptors on target cells, IFN- $\hat{1}\pm$  induces rapid changes in Jak/Stat phosphorylation, which initiates the Jak/Stat signaling pathway (2). IFN- $\hat{1}\pm$  signaling also involves production of DAG without an increased intracellular free calcium concentration and the subsequent activation of calcium-independent isoforms of PKC ( $\hat{1}^2$  and  $\hat{1}\mu$ ) (3). All IFN- $\hat{1}\pm$  signaling pathways lead to final alterations of gene expression, which mediate their pleiotropic biologic activities.

**Synonyms:**

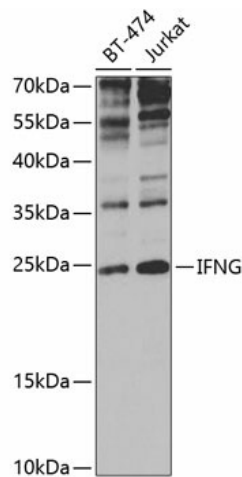
IFG; IFI

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

Allograft rejection, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, Proteasome, Regulation of autophagy, Systemic lupus erythematosus, T cell receptor signaling pathway, TGF-beta signaling pathway, Type I diabetes mellitus

**Product images:**

Western blot analysis of extracts of various cell lines, using IFNG antibody (TA332378) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 3s.