

Product datasheet for **AP20609PU-M**

Interferon gamma (IFNG) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1/500 - 1/1000. Immunohistochemistry: 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 31-80 of Human IFN- γ .
Specificity:	This antibody detects endogenous levels of IFN-gamma protein. (region surrounding Gln69)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 19 kDa
Gene Name:	interferon, gamma
Database Link:	Entrez Gene 3458 Human P01579



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Background:

Interferon (IFN)-gamma is an antiviral and antiparasitic agent produced by CD4+ / CD8+ lymphocytes and natural killer cells that undergo activation by antigens, mitogens or alloantigens. IFN-gamma production modulates T cell growth and differentiation and inhibits the growth of B cells. Synthesis of IFN-gamma is inducible by IL-2, FGF and EGF. The active form of IFN-gamma is a homodimer with each subunit containing six helices. The dimeric structure of human IFN-gamma is stabilized by non-covalent interactions through the interface of the helices. IFN-gamma translated precursor is 166 amino acids, including the 23 amino acid secretory sequence. 20 kDa and 25 kDa forms exist due to variable glycosylation; 40-60 kDa forms are observable under non-denaturing conditions as dimers and tetramers.

Synonyms:

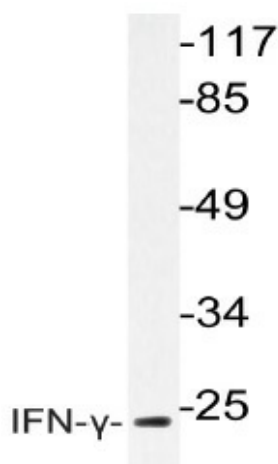
IFN-gamma, gamma IFN

Protein Families:

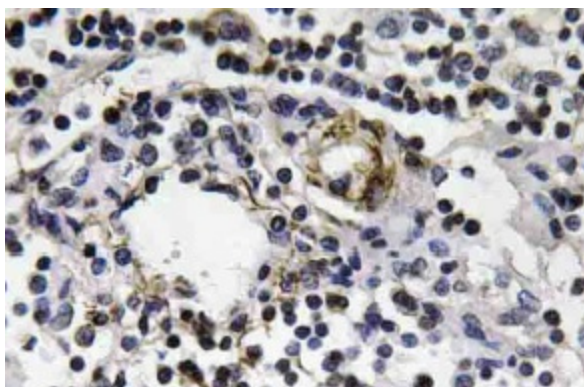
Druggable Genome, Secreted Protein

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 (WB) analysis of IFN-gamma antibody in extracts from HepG2 cells.



Immunohistochemistry (IHC) analyzes of IFN-gamma antibody in paraffin-embedded human lymph node tissue.