

IFN- β Polyclonal Antibody
Catalog # AP74147**Specification****IFN- β Polyclonal Antibody - Product Information**

Application	IHC
Primary Accession	P01574
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

IFN- β Polyclonal Antibody - Additional Information**Gene ID** 3456**Other Names**

Interferon beta (IFN-beta) (Fibroblast interferon)

Dilution

IHC~~IHC-p 1:50-200, ELISA 1:10000-20000

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

IFN- β Polyclonal Antibody - Protein Information**Name** IFNB1 ([HGNC:5434](#))**Synonyms** IFB, IFNB**Function**

Type I interferon cytokine that plays a key role in the innate immune response to infection, developing tumors and other inflammatory stimuli (PubMed: [10049744](http://www.uniprot.org/citations/10049744), PubMed: [10556041](http://www.uniprot.org/citations/10556041), PubMed: [6157094](http://www.uniprot.org/citations/6157094), PubMed: [6171735](http://www.uniprot.org/citations/6171735), PubMed: [7665574](http://www.uniprot.org/citations/7665574), PubMed: [8027027](http://www.uniprot.org/citations/8027027), PubMed: [8969169](http://www.uniprot.org/citations/8969169)). Signals via binding to high-affinity (IFNAR2) and low-affinity (IFNAR1) heterodimeric receptor, activating the canonical Jak-STAT signaling pathway resulting in transcriptional activation or repression of interferon-regulated genes that encode the effectors of the interferon response, such as antiviral proteins, regulators of cell proliferation and differentiation, and immunoregulatory proteins (PubMed: [10049744](http://www.uniprot.org/citations/10049744),

PubMed: 10556041, PubMed: 7665574, PubMed: 8027027, PubMed: 8969169). Signals mostly via binding to a IFNAR1-IFNAR2 heterodimeric receptor, but can also function with IFNAR1 alone and independently of Jak-STAT pathways (By similarity). Elicits a wide variety of responses, including antiviral and antibacterial activities, and can regulate the development of B-cells, myelopoiesis and lipopolysaccharide (LPS)- inducible production of tumor necrosis factor (By similarity). Plays a role in neuronal homeostasis by regulating dopamine turnover and protecting dopaminergic neurons: acts by promoting neuronal autophagy and alpha-synuclein clearance, thereby preventing dopaminergic neuron loss (By similarity). IFNB1 is more potent than interferon-alpha (IFN- alpha) in inducing the apoptotic and antiproliferative pathways required for control of tumor cell growth (By similarity).

Cellular Location

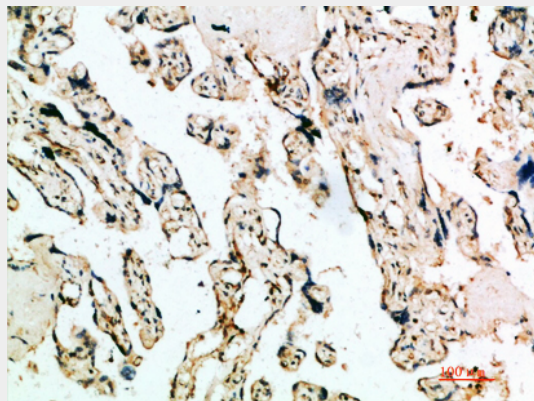
Secreted.

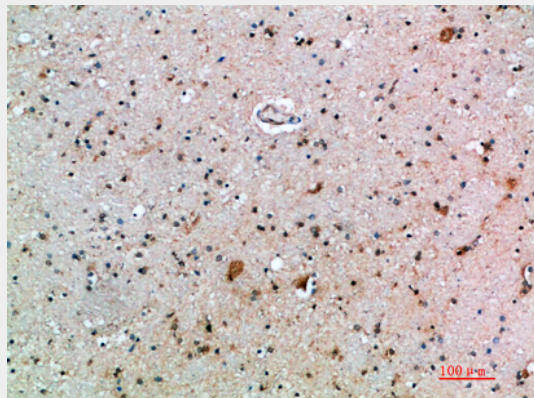
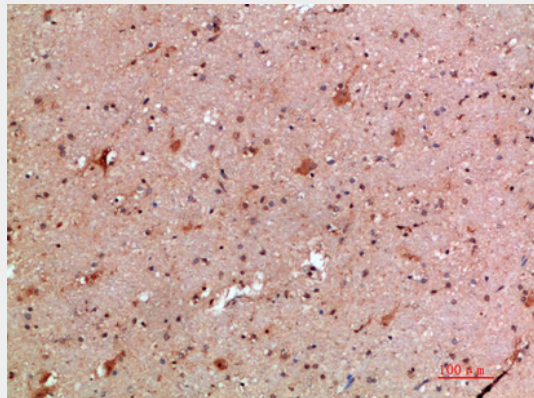
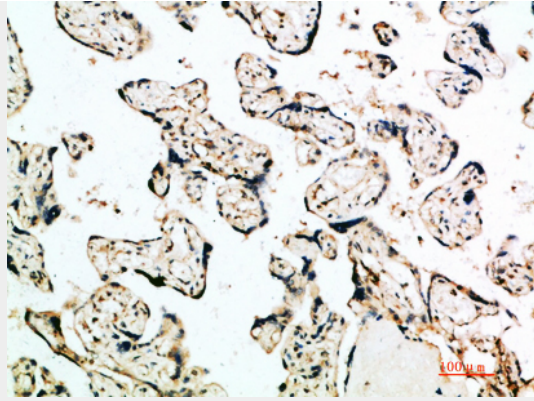
IFN- β Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IFN- β Polyclonal Antibody - Images





IFN- β Polyclonal Antibody - Background

Has antiviral, antibacterial and anticancer activities.