

**Interferon beta Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51902**

**Specification**

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**Interferon beta Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">P01574</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22 KDa

**Interferon beta Antibody - Additional Information**

**Gene ID** 3456

**Other Names**

Interferon beta, IFN-beta, Fibroblast interferon, IFNB1, IFB, IFNB

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Interferon beta 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:<a href="http://www.uniprot.org/citations/10049744" target="\_blank">10049744</a>, PubMed:<a href="http://www.uniprot.org/citations/10556041" target="\_blank">10556041</a>, PubMed:<a href="http://www.uniprot.org/citations/6157094" target="\_blank">6157094</a>, PubMed:<a href="http://www.uniprot.org/citations/6171735" target="\_blank">6171735</a>, PubMed:<a href="http://www.uniprot.org/citations/7665574" target="\_blank">7665574</a>, PubMed:<a href="http://www.uniprot.org/citations/8027027" target="\_blank">8027027</a>, PubMed:<a href="http://www.uniprot.org/citations/8969169" target="\_blank">8969169</a>). 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:<a href="http://www.uniprot.org/citations/10049744" target="\_blank">10049744</a>, PubMed:<a href="http://www.uniprot.org/citations/10556041" target="\_blank">10556041</a>, PubMed:<a href="http://www.uniprot.org/citations/7665574" target="\_blank">7665574</a>, PubMed:<a href="http://www.uniprot.org/citations/8027027" target="\_blank">8027027</a>, PubMed:<a href="http://www.uniprot.org/citations/8969169" target="\_blank">8969169</a>). 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.

### **Interferon beta 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](#)

### **Interferon beta Antibody - Images**

### **Interferon beta Antibody - Background**

Has antiviral, antibacterial and anticancer activities.

### **Interferon beta Antibody - References**

Lawn R.M.,et al.Nucleic Acids Res. 9:1045-1052(1981).  
Ohno S.,et al.Proc. Natl. Acad. Sci. U.S.A. 78:5305-5309(1981).  
Taniguchi T.,et al.Gene 10:11-15(1980).  
Derynck R.,et al.Nature 285:542-547(1980).  
Houghton M.,et al.Nucleic Acids Res. 8:2885-2894(1980).