

Interferon beta Antibody
Rabbit mAb
Catalog # AP91121

Specification

Interferon beta Antibody - Product Information

| | |
|--|------------------------|
| Application | WB, IP |
| Primary Accession | P01574 |
| Clonality | Monoclonal |
| Other Names | |
| Interferon beta; Interferon β ; IFN-beta; IFN- β ; IFN β ; Fibroblast interferon; IFB; IFNB; | |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 22294 Da |

Interferon beta Antibody - Additional Information

| | |
|------------------------------|---|
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human Interferon beta |
| Description | The type I interferon (IFN) family includes IFN-β1 and IFN-α1 through IFN-α13 in humans and IFN-α1 through IFN-α14 in mice. Type I IFN is produced following detection of pathogen-associated molecular patterns (PAMPs) and is important for induction of antiviral genes, activation of dendritic cells, and initiation of adaptive immunity. Has antiviral, antibacterial and anticancer activities. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

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:[10049744](http://www.uniprot.org/citations/10049744)), PubMed:[10556041](http://www.uniprot.org/citations/10556041)), PubMed:[6157094](http://www.uniprot.org/citations/6157094)), PubMed:[6157094](http://www.uniprot.org/citations/6157094)), PubMed:[6157094](http://www.uniprot.org/citations/6157094))

href="http://www.uniprot.org/citations/6171735" target="_blank">6171735, PubMed:7665574, PubMed:8027027, PubMed: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, 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

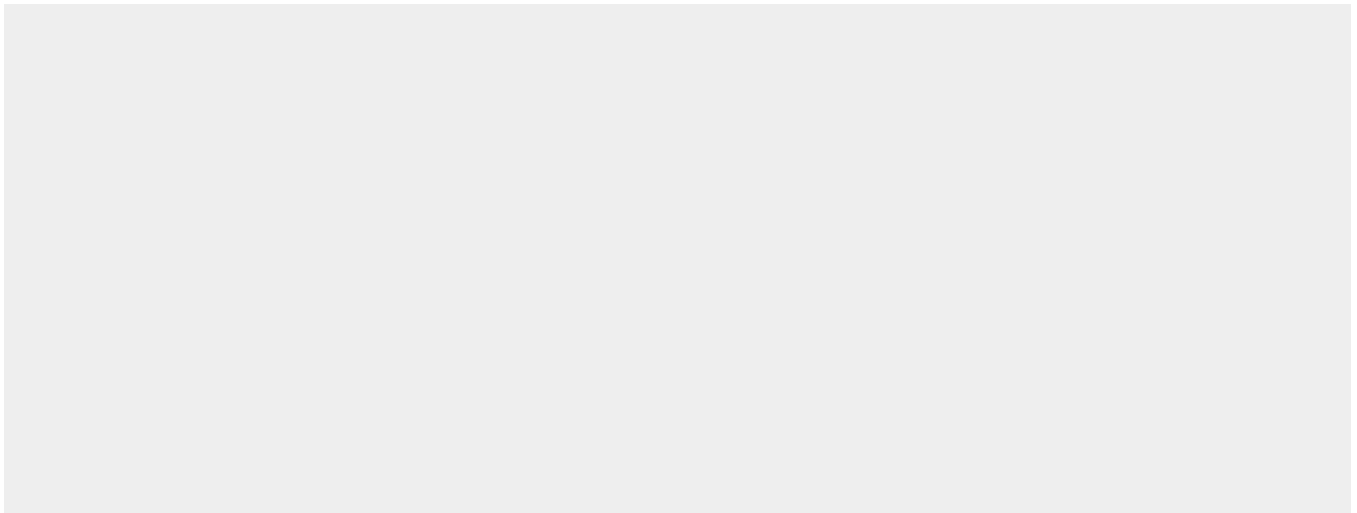
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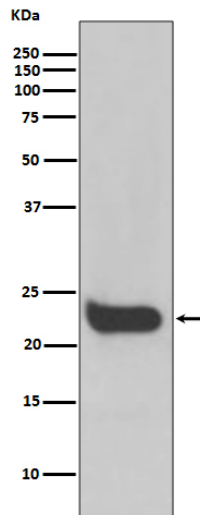
Interferon beta Antibody - Protocols

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





Western blot analysis of Interferon beta expression in HeLa cell lysate.