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IFN Beta / Interferon Beta Antibody (Internal)

Rabbit Polyclonal Antibody
Catalog # ALS11689

Specification

IFN Beta / Interferon Beta Antibody (Internal) - Product Information

Application	**WB, IHC-P**
Primary Accession	P01574
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**22kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A**

IFN Beta / Interferon Beta Antibody (Internal) - Additional Information

Gene ID 3456

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

Target/Specificity
an 17 amino acid peptide from near the center of human IFN-b

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
IFN Beta / Interferon Beta Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

IFN Beta / Interferon Beta Antibody (Internal) - 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, PubMed:10556041, PubMed:6157094, PubMed: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).

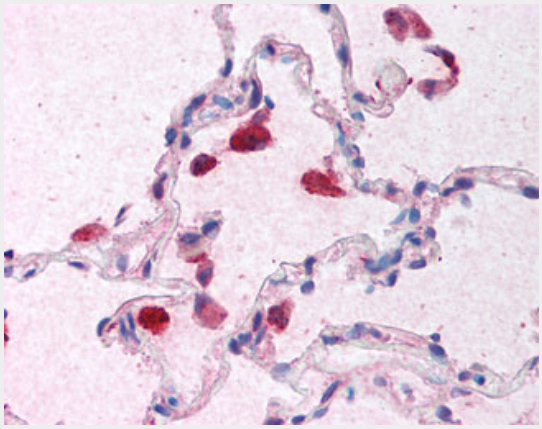
Cellular Location
Secreted.

IFN Beta / Interferon Beta Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IFN Beta / Interferon Beta Antibody (Internal) - Images



Anti-Interferon Beta antibody IHC of human lung.

IFN Beta / Interferon Beta Antibody (Internal) - Background

Has antiviral, antibacterial and anticancer activities.

IFN Beta / Interferon Beta Antibody (Internal) - 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).
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Houghton M.,et al.Nucleic Acids Res. 8:2885-2894(1980).