

IFNB1 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8568b

Specification

IFNB1 Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB,E |
| Primary Accession | P01574 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | monoclonal |
| Isotype | IgG1,k |
| Calculated MW | 22294 |

IFNB1 Antibody - Additional Information

Gene ID 3456

Other Names

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

Target/Specificity

This IFNB1 antibody is generated from a mouse immunized with a recombinant protein between 1-187 amino acids from human IFNB1.

Dilution

WB~~1:2000

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IFNB1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IFNB1 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](#), 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).

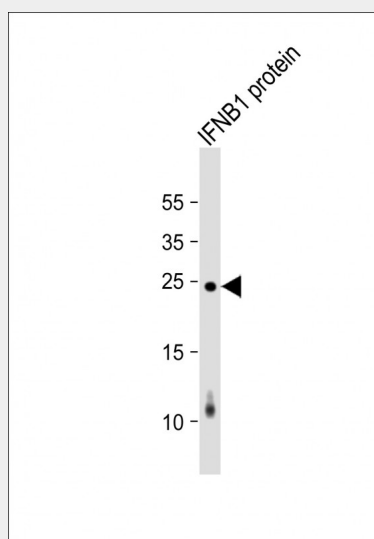
Cellular Location
Secreted.

IFNB1 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](#)

IFNB1 Antibody - Images



Anti-IFNB1 Antibody at 1:2000 dilution + IFNB1 protein lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

IFNB1 Antibody - Background

Has antiviral, antibacterial and anticancer activities.

IFNB1 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).