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IFNB1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8539a

Specification

IFNB1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P01574

IFNB1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 3456

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8539a was selected from the N-term region of human IFNB1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IFNB1 Antibody (N-term) Blocking Peptide - 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:6157094, PubMed:6171735, PubMed:8027027, PubMed:7665574, PubMed:8969169, PubMed:10049744, PubMed:10556041). 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:8027027, PubMed:7665574, PubMed:8969169, PubMed:10049744, PubMed:10556041). 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 (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

IFNB1 Antibody (N-term) Blocking Peptide - Images

IFNB1 Antibody (N-term) Blocking Peptide - Background

IFNB1 has antiviral, antibacterial and anticancer activities.

IFNB1 Antibody (N-term) Blocking Peptide - References

Lienenklaus,S.,et.al., J. Immunol. 183 (5), 3229-3236 (2009)Eto,T.et.al., Nat. Med. 5 (5), 577-581 (1999)