

# Polyclonal Antibody to Interferon Beta (IFN $\beta$ )

Interferon Beta  
Catalog # AP74574

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P01575</a> |
| Reactivity        | Mouse                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 22127                  |

## Additional Information

|                    |                                                                                                                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 15977                                                                                                                                                                                                             |
| Other Names        | IFNB1; IFN-B; IFB; IFF; IFNB; Interferon Beta 1 Fibroblast                                                                                                                                                        |
| Target/Specificity | Mus musculus (Mouse)                                                                                                                                                                                              |
| Dilution           | WB~~Western blotting: 0.5-2 $\mu$ g/mL;1:500-2000<br>Immunohistochemistry: 5-20 $\mu$ g/mL;1:50-200<br>Immunocytochemistry: 5-20 $\mu$ g/mL;1:50-200<br>Optimal working dilutions must be determined by end user. |
| Format             | 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.                                                                                                                                                     |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                                                                                                         |

## Protein Information

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | Ifnb1 {ECO:0000312   MGI:MGI:107657}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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="#">10708458</a> , PubMed: <a href="#">23872679</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 (By similarity). Signals mostly via binding to a IFNAR1-IFNAR2 heterodimeric receptor, but can also function with IFNAR1 alone and independently of Jak-STAT pathways (PubMed: <a href="#">23872679</a> ). 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 (PubMed: <a href="#">10708458</a> , PubMed: <a href="#">14597717</a> ). 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 (PubMed:[26451483](#)). IFNB1 is more potent than interferon-alpha (IFN-alpha) in inducing the apoptotic and antiproliferative pathways required for control of tumor cell growth (PubMed:[14597717](#)).

#### Cellular Location

Secreted {ECO:0000250 | UniProtKB:P01574}.

## Images

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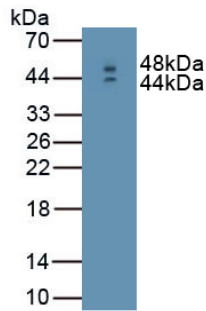


Figure. Western Blot; Sample: Recombinant IFNb, Mouse.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.