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# Anti-Interferon beta Rabbit Monoclonal Antibody

Catalog # ABO14214

## Product Information

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|---|---|
| **Application** | WB, IP |
| **Primary Accession** | P01574 |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Format** | Liquid |
| **Description** | Anti-Interferon beta Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human. |

## Additional Information

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|---|---|
| **Gene ID** | 3456 |
| **Other Names** | Interferon beta, IFN-beta, Fibroblast interferon, IFNB1 (HGNC:5434), IFB, IFNB |
| **Calculated MW** | 22294 |
| **Application Details** | WB 1:500-1:2000<br>IP 1:50 |
| **Subcellular Localization** | Secreted. |
| **Source** | Eukaryota |
| **Contents** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| **Clone Names** | Clone: AOHB-9 |
| **Immunogen** | A synthesized peptide derived from human Interferon beta |
| **Purification** | Affinity-chromatography |
| **Storage** | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

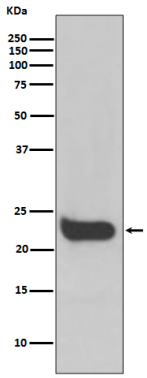
## Protein Information

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|---|---|
| **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.

## Images




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

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