

# Anti-Interferon beta Rabbit Monoclonal Antibody

Catalog # ABO14214

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IP                                                                                                            |
| <b>Primary Accession</b> | <a href="#">P01574</a>                                                                                            |
| <b>Host</b>              | Rabbit                                                                                                            |
| <b>Isotype</b>           | Rabbit IgG                                                                                                        |
| <b>Reactivity</b>        | Human                                                                                                             |
| <b>Clonality</b>         | Monoclonal                                                                                                        |
| <b>Format</b>            | Liquid                                                                                                            |
| <b>Description</b>       | Anti-Interferon beta Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human. |

## Additional Information

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 3456                                                                                                                                       |
| <b>Other Names</b>              | Interferon beta, IFN-beta, Fibroblast interferon, IFNB1 ( <a href="#">HGNC:5434</a> ), IFB, IFNB                                           |
| <b>Calculated MW</b>            | 22294                                                                                                                                      |
| <b>Application Details</b>      | WB 1:500-1:2000<br>IP 1:50                                                                                                                 |
| <b>Subcellular Localization</b> | Secreted.                                                                                                                                  |
| <b>Source</b>                   | Eukaryota                                                                                                                                  |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                        |
| <b>Clone Names</b>              | Clone: AOHB-9                                                                                                                              |
| <b>Immunogen</b>                | A synthesized peptide derived from human Interferon beta                                                                                   |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                    |
| <b>Storage</b>                  | 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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|-----------------|-----------------------------------------------------------------------|
| <b>Name</b>     | IFNB1 ( <a href="#">HGNC:5434</a> )                                   |
| <b>Synonyms</b> | IFB, IFNB                                                             |
| <b>Function</b> | Type I interferon cytokine that plays a key role in the innate immune |

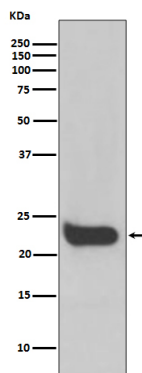
response to infection, developing tumors and other inflammatory stimuli (PubMed:[10049744](#), PubMed:[10556041](#), PubMed:[6157094](#), PubMed:[6171735](#), PubMed:[7665574](#), PubMed:[8027027](#), PubMed:[8969169](#)). Signals via binding to high-affinity (IFNAR2) and low-affinity (IFNAR1) heterodimeric 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

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

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