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Polyclonal Antibody to Interferon Beta (IFNb)

Interferon Beta
Catalog # AP74574

Product Information

Application	WB
Primary Accession	P01575
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 μg/mL;1:500-2000 Immunohistochemistry: 5-20 μg/mL;1:50-200 Immunocytochemistry: 5-20 μg/mL;1:50-200 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:10708458, PubMed:23872679). 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:23872679). 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:10708458, PubMed:14597717). 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

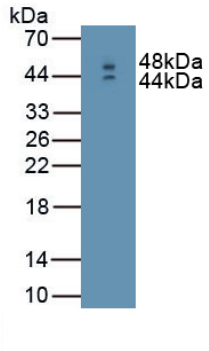


Figure. Western Blot; Sample: Recombinant IFNb, Mouse.

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