

A Reliable Research Partner in Life Science and Medicine

# IFN-beta Monoclonal Antibody(Capture)

catalog number: AN002700P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

**Reactivity** Mouse

Immunogen Recombinant Mouse IFN-beta protein expressed by Mammalian

Host Rat
Isotype Rat IgGl
Clone 4F9

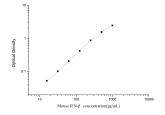
**Purification** Protein A/G Purification

**Buffer** Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

#### **Applications** Recommended Dilution

**ELISA Capture** 2-8 μg/mL

## Data



Sandwich ELISA-Recombinant Mouse IFN-beta protein standard curve. Background subtracted standard curve using IFN-beta antibody(AN002700P)(Capture), IFN-beta antibody(AN002710P)(Detector) in sandwich ELISA. The reference range value for Recombinant Mouse IFN-beta protein is 15.63-1000 pg/mL.

#### Preparation & Storage

Storage Storage Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze /

thaw cycles.

**Shipping** The product is shipped with ice pack, upon receipt, store it immediately at the

temperature recommended.

# Background

## For Research Use Only

Fax: 1-832-243-6017

# Elabscience Bionovation Inc.



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Type I interferon cytokine that plays a key role in the innate immune response to infection, developing tumors and other inflammatory stimuli. 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. Signals mostly via binding to a IFNAR1-IFNAR2 heterodimeric receptor, but can also function with IFNAR1 alone and independently of Jak-STAT pathways. 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. 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. IFNB1 is more potent than interferon-alpha (IFN-alpha) in inducing the apoptotic and antiproliferative pathways required for control of tumor cell growth.

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Toll-free: 1-888-852-8623 Web:<u>w w w .elabscience.com</u>

Tel: 1-832-243-6086 Email:techsupport@elabscience.com

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