

# Product datasheet for AP05706PU-N

### Interferon beta (IFNB1) Rabbit Polyclonal Antibody

### **Product data:**

#### **Product Type: Primary Antibodies Applications:** IHC, WB **Recommended Dilution:** Western blot: 5 µg/ml. This Interferon beta antibody detects a band of approximately 15kDa in A20 cell lysates. Immunohistochemistry on Paraffin Sections (requires antigen retrieval using heat treatment prior to staining). Human, Mouse **Reactivity:** Host: Rabbit Isotype: lgG **Clonality:** Polyclonal A 17 amino acid peptide located near the centre of human Interferon beta. Immunogen: This antibody recognises interferon beta (IFN-beta), a 22kD member of the type I alpha/beta Specificity: interferon family. Formulation: PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.02% Sodium Azide lot specific **Concentration: Purification:** Affinity Chromatography **Conjugation:** Unconjugated Store undiluted at 2-8°C for up to one month or (in aliquots) at -20°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. Gene Name: interferon beta 1 Database Link: Entrez Gene 15977 MouseEntrez Gene 3456 Human P01574



View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

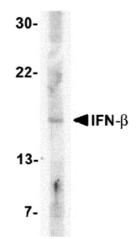
### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

### Service Servic

| Background:       | The mammalian type I Inteferons (IFN1) are produced in response to viral infection and other<br>inducers. They are divided into alpha and beta subtypes leukocytes and fibroblasts reactivity.<br>The human IFN alphas are encoded by a family of at least 15 different genes, while IFN beta is<br>the unique member of its subtype. There is approximately 50% amino acid homology<br>between the alpha and beta subtypes. Both IFN subtypes are pleiotropic cytokines and have a<br>similar range of biological activities. Differences between alpha subtypes, and between IFN<br>alpha and betas, are in potency and cell type specific activities. In particular, IFN beta elicits a<br>markedly higher antiproliferation response in some cell types such as, embryonal carcinoma,<br>melanoma and melanocytes than do IFN alphas. Higher potency of IFN beta in treatment of<br>multiple sclerosis and certain cancers has been observed. Type I IFNs signal through binding<br>to a common cell surface receptor. Two chains of the receptor, IFNAR1 and IFNAR2, have<br>been identified. Both chains are necessary for function and in the absence of either there is<br>neither high affinity binding nor biological activity. The intracellular portions of the receptor<br>subunits are bound by tyrosine kinases, Jak1 and Tyk2, members of the Janus kinase family.<br>Upon ligand binding these kinases are activated and phosphorylate members of the STAT<br>family of transcription factors, as well as IFNAR1 and 2. |
|-------------------|--|
| Synonyms:         | IFN-beta, IFNB1, IFB, Fibroblast interferon  |
| Protein Families: | Druggable Genome, Secreted Protein, Transmembrane  |
| Protein Pathways: | Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, RIG-I-like receptor signaling pathway, Toll-   |

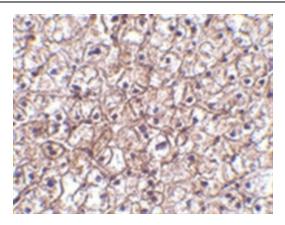
## **Product images:**



like receptor signaling pathway

Western blot analysis of whole cell lysate from A-20 mouse B-cell lymphoma probed with Rabbit anti Human IFN beta antibody

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Formalin fixed, paraffin embedded human liver stained with Rabbit anti Human IFN beta following heat mediated antigen retrieval using sodium citrate buffer (pH6.0)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US