# IFN-β (MIB-8C4.1): sc-53586



The Power to Question

# **BACKGROUND**

The genes encoding type I interferons (IFNs), which include 14 IFN- $\alpha$  genes, one IFN- $\beta$  gene, one IFN- $\omega$  (also known as IFN- $\alpha$  II1) gene and a number of IFN- $\omega$  pseudogenes, are clustered on human chromosome 9. IFN- $\alpha$  and - $\beta$  are cytokines that are widely known to induce potent antiviral activity. They exert a variety of other biological effects, including antitumor and immuno-modulatory activities, and are increasingly used clinically to treat a range of malignancies, myelodysplasias and autoimmune diseases. IFN- $\omega$  is antigenically different from human IFN- $\alpha$ , IFN- $\beta$  or IFN- $\gamma$ , but is a component of natural mixtures of IFN species produced by virus-induced leukocytes or Burkitt's lymphoma cells. The type I interferon receptor (IFN- $\alpha$ R) interacts with IFN- $\alpha$ , IFN- $\beta$  and IFN- $\omega$ , and seems to be a multisubunit receptor.

# **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: Ifnb1 (mouse) mapping to 4 C4.

#### **SOURCE**

IFN- $\beta$  (MIB-8C4.1) is a Armenian hamster monoclonal antibody raised against recombinant IFN- $\beta$  of mouse origin.

# **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

# **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

IFN- $\beta$  (MIB-8C4.1) is available conjugated to agarose (sc-53586 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53586 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53586 PE), fluorescein (sc-53586 FITC), Alexa Fluor\* 488 (sc-53586 AF488), Alexa Fluor\* 546 (sc-53586 AF546), Alexa Fluor\* 594 (sc-53586 AF594) or Alexa Fluor\* 647 (sc-53586 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor\* 680 (sc-53586 AF680) or Alexa Fluor\* 790 (sc-53586 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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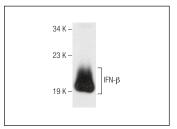
#### **APPLICATIONS**

IFN- $\beta$  (MIB-8C4.1) is recommended for detection of IFN- $\beta$  of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for IFN- $\beta$  siRNA (m): sc-39604, IFN- $\beta$  shRNA Plasmid (m): sc-39604-SH and IFN- $\beta$  shRNA (m) Lentiviral Particles: sc-39604-V.

Molecular Weight of IFN-β: 20 kDa.

# DATA



IFN- $\beta$  (MIB-8C4.1): sc-53586. Western blot analysis of mouse recombinant IFN- $\beta$ .

# **RESEARCH USE**

For research use only, not for use in diagnostic procedures.