

IFN- α 2 (A00033.01): sc-81019

BACKGROUND

The genes encoding type I interferons (IFNs), which include 14 IFN- α genes (one of which is IFN- α 2), 1 IFN- β gene, 1 IFN- ω (also known as IFN- α II1) gene and a number of IFN- ω pseudogenes, are clustered on human chromosome 9. IFN- α and - β are cytokines that are widely known to induce potent antiviral activity. They exert a variety of other biological effects, including antitumor and immunomodulatory activities and are increasingly used clinically to treat a range of malignancies, myelodysplasias and autoimmune diseases. IFN- ω is antigenically different from human IFN- α , IFN- β or IFN- γ , 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- α R) interacts with IFN- α , IFN- β and IFN- ω , and seems to be a multisubunit receptor.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IFNA2 (human) mapping to 9p21.3.

SOURCE

IFN- α 2 (A00033.01) is a mouse monoclonal antibody raised against recombinant IFN- α 2 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

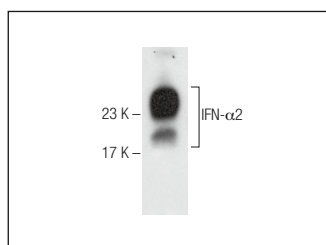
IFN- α 2 (A00033.01) is recommended for detection of IFN- α 2 a and b of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IFN- α 2 siRNA (h): sc-63324, IFN- α 2 shRNA Plasmid (h): sc-63324-SH and IFN- α 2 shRNA (h) Lentiviral Particles: sc-63324-V.

Molecular Weight of IFN- α 2: 19 kDa.

Positive Controls: U-937 cell lysate: sc-2239.

DATA



IFN- α 2 (A00033.01): sc-81019. Western blot analysis of IFN- α 2 expression in U-937 whole cell lysate.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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