SANTA CRUZ BIOTECHNOLOGY, INC.

IFN-α2 (5E683): sc-71316

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The genes encoding type I interferons (IFNs), which include 14 IFN-α genes (one of which is IFN-α2), one IFN-β gene, one 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-αR) 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-α2 (5E683) is a mouse monoclonal antibody raised against recombinant IFN-α2 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

IFN-α2 (5E683) is recommended for detection of IFN-α2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for IFN-α2 siRNA (h): sc-63324, IFN-α2 shRNA Plasmid (h): sc-63324-SH and IFN-α2 shRNA (h) Lentiviral Particles: sc-63324-V.

Molecular Weight of IFN-α2: 19 kDa.

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