

IFN- α 2 (EBI-1): sc-65419

BACKGROUND

The genes encoding type I interferons (IFNs), which include 14 IFN- α genes (one of which is IFN- α 2), 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- α R) interacts with IFN- α , IFN- β and IFN- ω , and seems to be a multi-subunit receptor.

REFERENCES

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4. Mire-Sluis, A.R., et al. 1996. An anti-cytokine bioactivity assay for interferons- α , - β and - ω . *J. Immunol. Methods* 195: 55-61.
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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.

CHROMOSOMAL LOCATION

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

SOURCE

IFN- α 2 (EBI-1) 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 of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

IFN- α 2 (EBI-1) is recommended for detection of natural and recombinant IFN- α 2 of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with IFN- α 8, IFN- α 21, or IFN- ν .

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.

RESEARCH USE

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