IFN-γ (J-7): sc-74106



The Power to Question

BACKGROUND

Interferon (IFN)- γ is an antiviral and antiparasitic agent produced by CD4+/ CD8+ lymphocytes and natural killer cells that undergo activation by antigens, mitogens or alloantigens. IFN- γ production modulates T cell growth and differentiation and inhibits the growth of B cells. Synthesis of IFN- γ is inducible by IL-2, FGF and EGF. The active form of IFN- γ is a homodimer with each subunit containing six helices. The dimeric structure of human IFN- γ is stabilized by non-covalent interactions through the interface of the helices. IFN- γ translated precursor is 166 amino acids, including the 23 amino acid secretory sequence. Multiple forms exist due to variable glycosylation and under non-denaturing conditions due to dimers and tetramers.

REFERENCES

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- Sizemore, N., et al. 2004. Inhibitor of κB kinase is required to activate a subset of IFN-γ-stimulated genes. Proc. Natl. Acad. Sci. USA 101: 7994-7998.
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CHROMOSOMAL LOCATION

Genetic locus: Ifng (mouse) mapping to 10 D2.

SOURCE

IFN- γ (J-7) is a mouse monoclonal antibody raised against full length recombinant IFN- γ of rat origin.

PRODUCT

Each vial contains 100 $\mu g \; lg G_1$ in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

RESEARCH USE

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

APPLICATIONS

IFN-γ (J-7) is recommended for detection of IFN-γ of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IFN- γ siRNA (m): sc-39607, IFN- γ shRNA Plasmid (m): sc-39607-SH and IFN- γ shRNA (m) Lentiviral Particles: sc-39607-V.

Molecular Weight of IFN-γ: 20-25 kDa.

SELECT PRODUCT CITATIONS

 Vega-Magaña, N., et al. 2018. Bacterial translocation is linked to increased intestinal IFN-γ, IL-4, IL-17, and mucin-2 in cholestatic rats. Ann. Hepatol. 17: 318-329.

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.

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