# IFN-γ (GIF-10): sc-57209



The Power to Question

#### **BACKGROUND**

Interferon (IFN)- $\gamma$  is an antiviral and antiparasitic agent produced by CD4+/CD8+ lymphocytes and natural killer cells that undergo activation by antigens, mitogens or alloantigens. IFN- $\gamma$  production modulates T cell growth and differentiation and inhibits the growth of B cells. Synthesis of IFN- $\gamma$  is inducible by IL-2, FGF and EGF. The active form of IFN- $\gamma$  is a homodimer with each subunit containing six helices. The dimeric structure of human IFN- $\gamma$  is stabilized by non-covalent interactions through the interface of the helices. IFN- $\gamma$  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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## **CHROMOSOMAL LOCATION**

Genetic locus: IFNG (human) mapping to 12q14.

## SOURCE

IFN- $\!\gamma$  (GIF-10) is a mouse monoclonal antibody raised against full length IFN- $\!\gamma$  of human origin.

#### **PRODUCT**

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

## **RESEARCH USE**

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

#### **APPLICATIONS**

IFN- $\gamma$  (GIF-10) is recommended for detection of IFN- $\gamma$  of human 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); non cross-reactive with human IFN- $\alpha$ .

Suitable for use as control antibody for IFN- $\gamma$  siRNA (h): sc-39606, IFN- $\gamma$  shRNA Plasmid (h): sc-39606-SH and IFN- $\gamma$  shRNA (h) Lentiviral Particles: sc-39606-V.

Molecular Weight of IFN-γ: 20-25 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, Daudi cell lysate: sc-2415 or Jurkat whole cell lysate: sc-2204.

#### **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.



See **IFN-γ (E-10)**: **sc-373727** for IFN-γ antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647.

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