

# IFN- $\gamma$ (CH8920): sc-52863

## BACKGROUND

Interferon (IFN)- $\gamma$  is an antiviral and antiparasitic agent produced by CD4<sup>+</sup>/CD8<sup>+</sup> 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 12q15.

## SOURCE

IFN- $\gamma$  (CH8920) is a mouse monoclonal antibody raised against full length IFN- $\gamma$  of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

IFN- $\gamma$  (CH8920) is recommended for detection of recombinant and native IFN- $\gamma$  of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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- $\gamma$ : 20-25 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](http://www.scbt.com) for detailed protocols and support products.



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