



# IFN- $\gamma$ (3H2481): sc-71313

## 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 (mouse) mapping to 10 D2.

## SOURCE

IFN- $\gamma$  (3H2481) is a mouse monoclonal antibody raised against full length IFN- $\gamma$  of rat origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>1</sub> in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

IFN- $\gamma$  (3H2481) is recommended for detection of the natural and recombinant forms of IFN- $\gamma$  of mouse and rat 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 (m): sc-39607, IFN- $\gamma$  shRNA Plasmid (m): sc-39607-SH and IFN- $\gamma$  shRNA (m) Lentiviral Particles: sc-39607-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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.