



## Mouse Anti-Human IFN- $\gamma$ Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Human IFN- $\gamma$

**Clone No.:** 165

**Catalogue No.:** MO-C40004E

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody to human Interferon-gamma (IFN- $\gamma$ )

**Purification:** Protein G affinity purified

**Target Protein:** Human IFN- $\gamma$

**Immunogen:** Purified recombinant human IFN- $\gamma$

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** This antibody recognizes both recombinant and native human IFN- $\gamma$ .

**Species Reactivity:** Human, other species not tested

**Host / Isotype:** Mouse, IgG1 Kappa

**Formulation:** Lyophilized from a solution in 0.01M PBS, pH 7.0

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

**Storage:** Store at -20°C

**Research Area:** Pro-inflammatory cytokine, anti-tumour and anti-viral immunity

**Background:** IFN- $\gamma$  is produced predominantly by natural killer and natural killer T cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte (CTL), effector T cells once antigen-specific immunity develops.

IFN- $\gamma$  stimulates its own expression and up-regulates other genes to stimulate and modulate immunity mainly through the Jak-Stat signalling pathway. It promotes T helper 1 differentiation and cell associated immunity, and also suppresses T helper 2 differentiation and humoral immunity.

IFN- $\gamma$  is a potent macrophage activator. It binds to macrophage in conjugation with CD40, causing the macrophage to produce elevated amounts of MHC molecules. It also stimulates the production of antigen-processing associated transporters and enzymes.

IFN- $\gamma$  is critical for anti-tumour and anti-viral immunity.

**Applications:** **ELISA:** In indirect ELISA, the antibody reacts with recombinant IFN- $\gamma$  coated plate at 0.1ng/mL of antibody concentration.

**Western Blot:** This antibody, used at a concentration of 0.5 $\mu$ g/mL, will allow visualization of 100ng/lane of IFN- $\gamma$ .

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.