

## Product datasheet for **AM26465AF-N**

### Interferon gamma (IFNG) Mouse Monoclonal Antibody [Clone ID: #6]

#### Product data:

**Product Type:** Primary Antibodies

**Clone Name:** #6

**Applications:** Neutralize

**Recommended Dilution:** **Neutralizing activity:**  $3.95 \times 10^3$  (NU/ml).

The apparent neutralizing effect of antibody against IFN-gamma may vary depending on cell types and growth conditions. The amounts of neutralized IFN-gamma activity by the serially diluted antibodies were measured under the condition stated in the protocol below. The diluted antibody at the dilution factor  $3.95 \times 10^3$  may neutralize the 1 IU/ml (International Reference Unit) of IFN-gamma in the solution, that is, 1 NU/ml (arbitrary standardized neutralizing unit) of antibody may neutralize the 1 IU/ml of IFN-gamma activity in the solution.

**Reactivity:** Human

**Host:** Mouse

**Isotype:** IgG1

**Clonality:** Monoclonal

**Immunogen:** Purified human IFN-gamma.

**Specificity:** This antibody neutralizes IFN-gamma.

**Formulation:** PBS containing 50% glycerol, pH 7.2. No preservative is contained.

State: Azide Free

State: Liquid Ig fraction

**Concentration:** lot specific

**Purification:** Protein A agarose

**Conjugation:** Unconjugated

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**Gene Name:** interferon, gamma



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**Database Link:** [Entrez Gene 3458 Human P01579](#)

**Background:** IFN-gamma, also known as type II interferon, is mainly produced in activated T lymphocytes and NK cells. It is involved in the regulation of nearly all phases of immune and inflammatory responses, such as the activation, growth, and differentiation of T cells, B cells, macrophages and also several other cell types, including endothelial cells and fibroblasts. IFN-gamma has antiviral and antiproliferative activities, it has also been shown to inhibit the proliferation of a variety of cells. Synthesis of IFN-gamma is upregulated by IL2, FGF basic and EGF.

**Synonyms:** IFN-gamma, gamma IFN

**Note:** This product was originally produced by MBL International.

**Protocol:**

Neutralization of IFN-gamma activity

- 1) Seed the FL cells in a 96 well microtiter plate at  $1-2 \times 10^4$  cells/well and culture in MEM medium containing 5% FCS in microtiter plates for 2-3 days at 37°C in CO<sub>2</sub> incubator.
- 2) Mix 30 IU/mL of IFN-gamma with same volumes of 0, 5, 10 and 20 µg/mL of anti-human IFN-gamma antibodies in another microtiter plate and incubate the mixtures at 37°C for 1 hour.
- 3) Transfer the preincubated mixtures (100 µL/well) to the wells of FL cell, and incubate for over night.
- 4) Add sindbis virus ( $1 \times 10^6$  PFU/100 µL/well) suspension and incubate additionally for  $22 \pm 2$  hours at 37°C in CO<sub>2</sub> incubator.
- 5) Aspirate the supernatant and add 0.02% Neutral Red solution to stain the viable cells after the virus challenge.
- 6) After the 40 minutes of incubation at 37°C in CO<sub>2</sub> incubator, aspirate the dye, then add PBS (+) and incubate for another 40 minutes at room temperature.
- 7) Add 100 µL of 30% Ethanol containing 7 mM HCl to lyse the cells.
- 8) Measure the net cytopathic effect (CPE) by measuring the absorbance at 540 nm (A<sub>540</sub>).