

Hycult biotechnology

IFN-gamma, Clone F3, Mouse mAb

Catalog No. HM1002B **Quantity:** 0.5 mg

Description: Monoclonal antibody F3 binds and neutralizes both natural and recombinant mouse gamma Interferon. Its binding and neutralizing activity has been demonstrated *in vitro* and *in vivo*. F3 antibodies have been demonstrated to be able to inhibit inflammatory responses to bacterial lipopolysaccharides. These antibodies were furthermore shown to inhibit Schwartzman reactions and to protect NZB mice against spontaneous development of autoimmune disease.
The antibody does not react with rat or human gamma interferon.

Specificity: Mouse IFN-gamma

Host: Rat

Isotype: IgG_{2a}

Clone: F3

Formulation: Lyophilized product in PBS, containing 500 µg.

Reconstitution: Reconstitute the vial by injection of 0.5 ml sterile distilled or deionized water (Caution: vial is under vacuum).

Cross-Reactivity: Does not react with rat or human gamma interferon.

Applications The antibody can be used for *in vitro* and *in vivo* inhibition of activity of IFN-gamma. Furthermore the antibody is useful for immunoassays and immunoprecipitation. For neutralization of biological activity dilutions have to be made according to the amount of Interferon to be inactivated. One neutralizing unit is defined as the amount of antibody sufficient for neutralizing one unit of mouse gamma Interferon antiviral activity as calibrated against NIH standard Gg02-901-533.

Storage & Stability: Lyophilized product should be stored at 4°C. Store stock solution in aliquots at -20°C. Repeated freeze and thaw cycles will cause loss of activity. Under recommended storage conditions, product is stable for one year.



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References:

1. Armstrong, JA et al; Semi-micro, dye-binding assay for rabbit interferon. J Appl Microbiol 1971, 21: 723
2. van Tiel, FH et al; Detection of Semliki Forest virus in cell culture by use of an enzyme immunoassay with peroxidase-labeled monoclonal antibodies specific for glycoproteins E1 and E2. J Clin Microbiol 1984, 20: 387
3. Dijkmans, R et al; Heterogeneity of Chinese hamster ovary cell-produced recombinant mouse interferon-gamma. J Biol Chem 1987, 262: 2528
4. Heremans, H et al; Regulation by interferons of the local inflammatory response to bacterial lipopolysaccharide. J Immunol 1987, 138: 4175
5. Billiau, A et al; anti-interferon-gamma antibody protects mice against the generalized Shwartzman reaction. Eur J Immunol 1987, 17: 1851
6. Jacob, CO et al; *in vivo* treatment of (NZB X NZW) F1 lupus-like nephritis with monoclonal antibody to gamma interferon. J Exp Med 1987, 166: 798
7. Wolfs, T et al; *In vivo* expression of Toll-like receptor 2 and 4 by renal epithelial cells: IFN-gamma and TNF-alpha up-regulation during inflammation. J Immunol 2002, 168: 1286

Also available:

- HM1002a: Anti-mouse IFN-gamma, Clone F3, mAb, 100 µg.
- HM1003a: Anti-mouse IFN-gamma, Clone F1, mAb, 100 µg.
- HM1003b: Anti-mouse IFN-gamma, Clone F1, mAb, 500 µg
- HC1020a: IFN-gamma, recombinant mouse, CHO derived, 10E5 units.
- HC1020b: IFN-gamma, recombinant mouse, CHO derived, 10E6 units.

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