

**MONOCLONAL ANTIBODY TO
MOUSE GAMMA INTERFERON (IFN-gamma)
Clone F3**



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| Catalog nr | HM1002B (lot number and expiry date are indicated on the label) |
| 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 Shwartzman reactions and to protect NZB mice against spontaneous development of autoimmune disease. The antibody does not react with rat or human gamma interferon. |
| Species | Rat IgG _{2a} |
| Formulation | Lyophilized product in PBS, containing 500 µg. Reconstitute the vial by injection of 0.5 ml sterile distilled or de-ionized water (Caution: vial is under vacuum). |
| Application | 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. |
| Use | For neutralisation 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 and 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. |
| Precautions | For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product. |
| References | <ol style="list-style-type: none">1. Armstrong, JA et al; Semi-micro, dye-binding assay for rabbit interferon. <i>J Appl Microbiol</i> 1971, 21: 7232. 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. <i>J Clin Microbiol</i> 1984, 20: 3873. Dijkmans, R et al; Heterogeneity of Chinese hamster ovary cell-produced recombinant murine interferon-gamma. <i>J Biol Chem</i> 1987, 262: 25284. Heremans, H et al; Regulation by interferons of the local inflammatory response to bacterial lipopolysaccharide. <i>J Immunol</i> 1987, 138 : 41755. Billiau, A et al; anti-interferon-gamma antibody protects mice against the generalized Shwartzman reaction. <i>Eur J Immunol</i> 1987, 17: 18516. Jacob, CO et al; in vivo treatment of (NZB X NZW) F1 lupus-like nephritis with monoclonal antibody to gamma interferon. <i>J Exp Med</i> 1987, 166: 7987. 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. <i>J immunol</i> 2002, 168: 1286 |
| Also available | HM1002a Monoclonal antibody against Mouse IFN-gamma, clone F3; 100 µg HM1003a Monoclonal antibody against Mouse IFN-gamma, clone F1; 100 µg HM1003b Monoclonal antibody against Mouse IFN-gamma, clone F1; 500 µg HC1020a Recombinant Mouse IFN-gamma (CHO-derived), 10 ⁵ units HC1020b Recombinant Mouse IFN-gamma (CHO-derived), 10 ⁶ units |