

## CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

<b>Product name</b>	IFN-Gamma, Mouse, clone F1		
<b>Catalog number</b>	HM1003-20UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	200 µl	<b>Amount</b>	20 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.02%NaN3+0.1%BSA	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Rat IgG2a	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	4°C		

### Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes						•	•	
No								
N.D.	•	•	•	•	•			•

N.D. = Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IA: The antibody can be used as a detection antibody.

### General Information

<b>Description</b>	Monoclonal antibody F1 binds both natural and recombinant mouse gamma Interferon. Its binding activity has been demonstrated in vitro and in vivo. F1 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 neutralizing activity of the antibody has been demonstrated as being poor in anti-viral assays. If a neutralizing antibody is specifically desired, we recommend the use of another antibody available from Hycult Biotech, namely F3 (cat# HM1002) which recognizes a different epitope on the murine gamma Interferon molecule and in contrast to F1, exhibits strong neutralizing activity. The antibody does not react with rat or human gamma interferon.
<b>Aliases</b>	IFN-γ
<b>Cross reactivity</b>	Human IFN-γ: No Rat IFN-γ: No
<b>References</b>	<ol style="list-style-type: none"> <li>Armstrong, JA et al; Semi-micro, dye-binding assay for rabbit interferon. J Appl Microbiol 1971, 21: 723</li> <li>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</li> <li>Dijkmans, R et al; Heterogeneity of Chinese hamster ovary cell-produced recombinant murine interferon-gamma. J Biol Chem 1987, 262: 2528</li> <li>Heremans, H et al; Regulation by interferons of the local inflammatory response to bacterial lipopolysaccharide. J Immunol 1987, 138 : 4175</li> <li>Billiau, A et al; anti-interferon-gamma antibody protects mice against the generalized Shwartzman reaction. Eur J Immunol 1987, 17 : 1851</li> <li>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</li> </ol>

**Storage&stability** 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 at least 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 from the use or derivation of this product.

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We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Brenda Teunissen

Date  
26/10/2020

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).