

PRODUCT INSERT

**CYTO-IC MONOCLONAL ANTIBODIES
SPECIFIC TO HUMAN IFN- γ**

Product Code	Form	Volume	Antibody*	Tests	Excitation (nm)	Peak Emission (nm)	Matching Isotype Controls	
MHCIFG00	Purified	1.0 ml	200 μ g		N/A	N/A	Mouse IgG1 Purified	Code MG100
MHCIFG28	Pacific Blue™	0.5 ml		100 min.	405	455	Mouse IgG1 Pacific Blue™	Code MG128
MHCIFG01	FITC	1.0 ml		100 min.	488	525	Mouse IgG1 FITC	Code MG101
MHCIFG01-3	FITC	3.0 ml		300 min.				
MHCIFG20	Alexa Fluor® 488†	0.5 ml		100 min.	488	519	Mouse IgG1 Alexa Fluor® 488	Code MG120
MHCIFG04	R-PE	0.5 ml		50 min.	488	575	Mouse IgG1 R-PE	Code MG104
MHCIFG04-3	R-PE	3.0 ml		300 min.				
MHCIFG31	PerCP	0.5 ml		50 min.	488	678	Mouse IgG1 PerCP	Code MG131
MHCIFG24	PE-Alexa Fluor® 700	0.5 ml		50 min.	488	723	Mouse IgG1 PE-Alexa Fluor® 700	Code MG124
MHCIFG05	APC	0.5 ml		50 min.	600-650	660	Mouse IgG1 APC	Code MG105
MHCIFG27	APC-Alexa Fluor® 750‡	0.5 ml		100 min.	600-650	775	Mouse IgG1 APC-Alexa Fluor® 750	Code MG127
MHCIFG29	Alexa Fluor® 700	0.5 ml		100 min.	630-702	723	Mouse IgG1 Alexa Fluor® 700	Code MG129

PRODUCT DESCRIPTION

Mouse monoclonal antibody to human IFN- γ

Clone: B27

Isotype: Mouse IgG1

Lot No.: See label **Expiration:** See label

Buffer: Phosphate buffered saline (PBS)

Preservative: 0.1% *sodium azide*. Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Solutions containing sodium azide should be disposed of properly.

Stabilizer: For conjugated products only, a highly purified grade of BSA has been added as a stabilizing agent.

STORAGE & HANDLING

Store reagents at 2-8°C. Light exposure should be avoided with fluorochrome-conjugated reagents. Use dim light during handling, incubation with cells and prior to analysis. It is recommended that cells be analyzed within 18 hours of staining. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted.

PRODUCT CHARACTERIZATION

Antigen Specificity: According to the literature this antibody recognizes human interferon-gamma (IFN- γ)^{1,2}. This antibody has been reported to block the biological activity of IFN- γ ¹.

Staining Protocol: This antibody has been optimized for use with

Caltag's FIX & PERM® fixation and permeabilization reagents (Code #'s GAS-003, GAS-004, GAS001S-100 and GAS002S-100). The staining protocol is given in the product inserts for these kits.

PRODUCT QUALITY CONTROL

Each lot is tested by flow cytometry using activated peripheral blood mononuclear cells. Based on this testing it is recommended that 5 μ l of antibody be used per 1 x 10⁶ cells in a 100 μ l staining volume. Because results may vary, it is suggested that each investigator determine the optimal amount of antibody to be used for each application.

REFERENCES:

1. Favre, C., J. Wijdenes, H. Cabrillat, O. Djossou, J. Banchereau, and J. E. Vries. 1989. *Molec. Immunol.* 26: 17.
2. Abrams, J. S., M. G. Roncarolo, H. Yssel, U. Andersson, G. J. Gleich, and J. E. Silver. 1992. *Immunol. Rev.* 127: 5.
3. Abrams, J. S. 1995. Immunoenzymetric assay of mouse and human cytokines using NIP-labelled anti-cytokine antibodies. In *Current Protocols in Immunology*. J. E. Coligan, A. M. Kruisbeck, D. H. Margulies, E. M. Shevach, and W. Strober, eds. John Wiley & Sons, New York, NY, p. 6.20.1.
4. Prussin, C. and D. Metcalfe. 1995. *J. Immunol. Meth.* 188: 117.

* Antibody value assigned is based on the Optical Density at 280 nm.

† The Alexa Fluor® dye conjugates in this product are sold under license from Molecular Probes, Inc., and are covered by pending and issued patents.

‡ The efficiency of energy transfer in tandem dyes can be significantly decreased by exposure to visible light. We recommend that longer wavelength fluorochrome conjugates, e.g. PE-Cy7, PE-Alexa Fluor® 700, be protected from light during staining reactions and while awaiting analysis, e.g. cover with aluminum foil.

Cy is a registered trademark of GE/Amersham Biosciences.

FOR RESEARCH USE ONLY. . . NOT FOR THERAPEUTIC OR IN VITRO DIAGNOSTIC USE

www.invitrogen.com

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com