

Datasheet: MCA1581F

Description:	MOUSE ANTI HUMAN INTERFERON GAMMA:FITC
Specificity:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	D9D10
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			Neat - 1/10

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

Target Species	Human								
Species Cross Reactivity	Reacts with: Baboon N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.								
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid								
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
FITC	490	525							
Preparation	Purified IgG prepared by ion exchange chromatography								

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Natural human interferon-gamma.
External Database Links	<p>UniProt: P01579 Related reagents</p> <p>Entrez Gene: 3458 IFNG Related reagents</p>
RRID	AB_322172
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse P3X63-Ag-8.653 myeloma cell line.
Specificity	<p>Mouse anti Human Interferon gamma antibody, clone D9D10 recognizes both natural and recombinant human interferon gamma, binding only to the dimeric (functional) form.</p> <p>Mouse anti Human Interferon gamma antibody, clone D9D10 has been reported to neutralize the activity of natural and recombinant IFN gamma.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Andersson, U. <i>et al.</i> (1986) Phenotypic characterization of individual interferon-gamma-producing cells after OKT3 antibody activation. Eur J Immunol. 16 (11): 1457-60. Sandvig, S. <i>et al.</i> (1987) Gamma-interferon is produced by CD3+ and CD3- lymphocytes. Immunol Rev. 97: 51-65. Andersson U <i>et al.</i> (1988) Enumeration of IFN-gamma-producing cells by flow cytometry. Comparison with fluorescence microscopy. J Immunol Methods. 112 (1): 139-42. Horowitz, A. <i>et al.</i> (2010) NK cells as effectors of acquired immune responses: effector CD4+ T cell-dependent activation of NK cells following vaccination. J Immunol. 185 (5): 2808-18. Buggins, A.G. <i>ety al.</i> (2001) Microenvironment produced by acute myeloid leukemia cells prevents T cell activation and proliferation by inhibition of NF-kappaB, c-Myc, and pRb pathways. J Immunol. 167: 6021-30. Burton, O.T. <i>et al.</i> (2010) Roles for TGF-beta and programmed cell death 1 ligand 1 in regulatory T cell expansion and diabetes suppression by zymosan in nonobese diabetic mice. J Immunol. 185: 2754-62. Cox, K. <i>et al.</i> (2005) Plasmacytoid dendritic cells (PDC) are the major DC subset innately producing cytokines in human lymph nodes. J Leukoc Biol. 78: 1142-52.

8. Newman, K.C. *et al.* (2006) Cross-talk with myeloid accessory cells regulates human natural killer cell interferon-gamma responses to malaria. [PLoS Pathog. 2: e118.](#)
9. Horowitz, A. & Riley, E.M. (2013) Activation of human NK cells by *Plasmodium*-infected red blood cells. [Methods Mol Biol. 923: 447-64.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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