

## Datasheet: MCA1548F

<b>Description:</b>	RAT ANTI MOUSE INTERFERON GAMMA:FITC
<b>Specificity:</b>	IFN GAMMA
<b>Other names:</b>	INTERFERON GAMMA
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	XMG1.2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## Product Details

**RRID** AB\_322176

### 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](http://www.bio-rad-antibodies.com/protocols).

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

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** Mouse

**Product Form** Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.09% Sodium Azide

**Stabilisers** 1% Bovine Serum Albumin

**Approx. Protein Concentrations** IgG concentration 0.1 mg/ml

**Immunogen** Recombinant mouse IFN gamma.

**External Database  
Links**

**UniProt:**

[P01580](#)   [Related reagents](#)

**Entrez Gene:**

[15978](#) Ifng   [Related reagents](#)

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**Specificity**

**Rat anti Mouse Interferon gamma antibody, clone XMG1.2** recognizes murine IFN gamma. Rat anti Mouse Interferon gamma antibody, clone XMG1.2 may be used for the detection of intracellular IFN gamma using flow cytometric techniques and has been shown to block the functional activity of murine interferon gamma.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Cherwinski, H.M. *et al.* (1987) Two types of mouse helper T cell clone. III. Further differences in lymphokine synthesis between Th1 and Th2 clones revealed by RNA hybridization, functionally monospecific bioassays, and monoclonal antibodies. [J Exp Med. 166 \(5\): 1229-44.](#)
2. Holz, A. *et al.* (2001) Constitutive beta cell expression of IL-12 does not perturb self-tolerance but intensifies established autoimmune diabetes. [J Clin Invest. 108 \(12\): 1749-58.](#)
3. Hsieh, B. *et al.* (1996) *In vivo* cytokine production in murine listeriosis. Evidence for immunoregulation by gamma delta+ T cells. [J Immunol. 156 \(1\): 232-7.](#)
4. Chiu, W.C. *et al.* (2009) Effects of dietary fish oil supplementation on cellular adhesion molecule expression and tissue myeloperoxidase activity in hypercholesterolemic mice with sepsis. [J Nutr Biochem. 20: 254-60.](#)
5. Hsu, C.S. *et al.* (2006) Dietary fish oil enhances adhesion molecule and interleukin-6 expression in mice with polymicrobial sepsis. [Br J Nutr. 96: 854-60.](#)
6. Rountree, R.B. *et al.* (2011) Exosome Targeting of Tumor Antigens Expressed by Cancer Vaccines Can Improve Antigen Immunogenicity and Therapeutic Efficacy. [Cancer Res. 71: 5235-44.](#)
7. Pletinckx K *et al.* (2015) Immature dendritic cells convert anergic nonregulatory T cells into Foxp3- IL-10+ regulatory T cells by engaging CD28 and CTLA-4. [Eur J Immunol. 45 \(2\): 480-91.](#)
8. Tsagozis, P. *et al.* (2003) CD8(+) T cells with parasite-specific cytotoxic activity and a Tc1 profile of cytokine and chemokine secretion develop in experimental visceral leishmaniasis. [Parasite Immunol. 25 \(11-12\): 569-79.](#)
9. ReisL, E.S. *et al.* (2017) Mixed Formulation of Conventional and Pegylated Meglumine Antimoniate-Containing Liposomes Reduces Inflammatory Process and Parasite Burden in *Leishmania infantum*-Infected BALB/c Mice. [Antimicrob Agents Chemother. 61 \(11\)Oct 24 \[Epub ahead of print\].](#)

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**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.

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**Guarantee**

18 months from date of despatch.

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**Health And Safety  
Information**

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

## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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