

Datasheet: MCA1548F

Description:	RAT ANTI MOUSE INTERFERON GAMMA:FITC
Specificity:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	XMG1.2
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
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	<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					
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:						

Entrez Gene:

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

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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none">1. Cherwinski, H.M. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (1996) <i>In vivo</i> cytokine production in murine listeriosis. Evidence for immunoregulation by gamma delta+ T cells. J Immunol. 156 (1): 232-7.4. Chiu, W.C. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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 <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2017) Mixed Formulation of Conventional and Pegylated Meglumine Antimoniate-Containing Liposomes Reduces Inflammatory Process and Parasite Burden in <i>Leishmania infantum</i>-Infected BALB/c Mice. Antimicrob Agents Chemother. 61 (11)Oct 24 [Epub ahead of print].
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.
Shelf Life	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

Related Products

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:FITC \(MCA1211F\)](#)

Recommended Useful Reagents

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

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

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