

Datasheet: MCA1301

Description:	MOUSE ANTI RAT INTERFERON GAMMA
Specificity:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DB-1
Isotype:	IgG1
Quantity:	0.25 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	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			10ug/ml - 100ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species

Rat

Species Cross Reactivity

Reacts with: Mouse

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 - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant rat IFN gamma.
External Database Links	<p>UniProt: P01581 Related reagents</p> <p>Entrez Gene: 25712 Ifng Related reagents</p>
RRID	AB_322174
Specificity	<p>Mouse anti Rat Interferon gamma antibody, clone DB-1 reacts with both mouse and rat Interferon gamma. Clone DB-1 exhibits high affinity binding to the natural and recombinant forms and effectively neutralizes the anti viral activity of IFN-gamma. It also blocks the induction of Ia antigen expression on murine keratinocytes.</p> <p>Mouse anti Rat Interferon gamma antibody, clone DB-1 does not cross-react with rodent IFN-alpha or IFN-beta or with human interferons.</p> <p>Mouse anti Rat Interferon gamma antibody, clone DB-1 has also been reported to neutralize rat gamma interferon.</p>
References	<ol style="list-style-type: none"> 1. Paineau, J. <i>et al.</i> (1991) Effect of recombinant interferon gamma and interleukin-2 and of a monoclonal antibody against interferon gamma on the rat immune response against heart allografts. J Heart Lung Transplant. 10 (3): 424-30. 2. Paineau, J. <i>et al.</i> (1989) Effects of gamma interferon and interleukin-2, and of gamma-interferon antibodies, on the rat immune response against allografts. Transplant Proc. 21: 999-1001. 3. van der Meide, P.H. <i>et al.</i> (1986) The purification and characterization of rat gamma interferon by use of two monoclonal antibodies. J Gen Virol. 67 (Pt 6): 1059-71. 4. Keller, R. <i>et al.</i> (1987) Induction, maintenance, and reinduction of tumoricidal activity in bone marrow-derived mononuclear phagocytes by <i>Corynebacterium parvum</i>. Evidence for the involvement of a T cell- and interferon-gamma-independent pathway of macrophage activation. J Immunol. 138 (7): 2366-71. 5. Jacob, C.O. <i>et al.</i> (1989) Heterogeneous effects of IFN-gamma in adjuvant arthritis. J Immunol. 142 (5): 1500-5. 6. Kingston, A.E. <i>et al.</i> (1989) Schwann cells co-cultured with stimulated T cells and antigen express major histocompatibility complex (MHC) class II determinants without interferon-gamma pretreatment: synergistic effects of interferon-gamma and tumor necrosis factor on MHC class II induction. Eur J Immunol. 19 (1): 177-83. 7. Graf, M.R. <i>et al.</i> (2001) IL-6 secretion by a rat T9 glioma clone induces a neutrophil-

dependent antitumor response with resultant cellular, antiglioma immunity. [J Immunol. 166 \(1\): 121-9.](#)

8. Elflein, K. *et al.* (2003) Rapid recovery from T lymphopenia by CD28 superagonist therapy. [Blood. 102: 1764-70.](#)

9. Straube, F. and Herrmann, T. (2001) Differential modulation of CD8beta by rat gammadelta and alphabeta T cells after activation. [Immunology. 104: 252-8.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M409107:221017'

Printed on 17 Oct 2022