

Datasheet: MCA1301XZ

Description:	MOUSE ANTI RAT INTERFERON GAMMA:Preservative Free
Specificity:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	DB-1
Isotype:	IgG1
Quantity:	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			■	
Immunohistology - Frozen	■			
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation			■	
Western Blotting	■			
Functional Assays	■			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody 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.
Product Form	Purified IgG - lyophilised
Reconstitution	Reconstitute with 0.5ml distilled water
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	125mM Trehalose.
Approx. Protein	IgG concentration 2.0 mg/ml

Concentrations

Immunogen Recombinant rat IFN gamma.

External Database Links

UniProt:

[P01581](#) [Related reagents](#)

Entrez Gene:

[25712](#) Ifng [Related reagents](#)

Specificity

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.

Mouse anti Rat Interferon gamma antibody, clone DB-1 does not cross-react with rodent IFN-alpha or IFN-beta or with human interferons.

Mouse anti Rat Interferon gamma antibody, clone DB-1 has also been reported for use in neutralising studies.

References

1. Paineau, J. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (1987) Induction, maintenance, and reinduction of tumoricidal activity in bone marrow-derived mononuclear phagocytes by *Corynebacterium parvum*. 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. *et al.* (1989) Heterogeneous effects of IFN-gamma in adjuvant arthritis. [J Immunol. 142 \(5\): 1500-5.](#)
 6. Kingston, A.E. *et al.* (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. *et al.* (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.](#)
 10. van der Meide PH *et al.* (1989) Isolation and characterization of monoclonal antibodies directed to rat interferon-gamma. [Lymphokine Res. 8 \(4\): 439-49.](#)
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Storage

Prior to reconstitution store at +4°C.

After reconstitution store at -20°C.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	Please see label for expiry date
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10121 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10121.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Preservative Free \(MCA1209XZ\)](#)

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
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