

Datasheet: MCA1301

BATCH NUMBER 148157

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 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.

Target Species	Rat
Species Cross Reactivity	<p>Reacts with: Mouse</p> <p>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.</p>
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 (NaN₃)

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Recombinant rat IFN gamma.

External Database Links

UniProt:

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

Entrez Gene:

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

RRID AB_322174

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, antiangioma 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	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA130110040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
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 (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	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
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