

## Datasheet: MCA1301GA

|                      |                                 |
|----------------------|---------------------------------|
| <b>Description:</b>  | MOUSE ANTI RAT INTERFERON GAMMA |
| <b>Specificity:</b>  | IFN GAMMA                       |
| <b>Other names:</b>  | INTERFERON GAMMA                |
| <b>Format:</b>       | Purified                        |
| <b>Product Type:</b> | Monoclonal Antibody             |
| <b>Clone:</b>        | DB-1                            |
| <b>Isotype:</b>      | IgG1                            |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             | ■   |    |                |                    |
| Immunohistology - Frozen   | ■   |    |                |                    |
| Immunohistology - Paraffin |     |    | ■              |                    |
| ELISA                      | ■   |    |                | 10ug/ml - 100ug/ml |
| Immunoprecipitation        |     |    | ■              |                    |

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.

|                                       |                                                                                                        |
|---------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>                 | Rat                                                                                                    |
| <b>Species Cross Reactivity</b>       | Reacts with: Mouse<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. |
| <b>Product Form</b>                   | Purified IgG - liquid                                                                                  |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant          |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                              |
| <b>Preservative Stabilisers</b>       | 125mM trehalose<br>0.09% Sodium Azide                                                                  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml                                                                            |
| <b>Immunogen</b>                      | 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.](#)

**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.

**Shelf Life**

18 months from date of despatch.

**Health And Safety**

Material Safety Datasheet documentation #10044 available at:

## Related Products

### Recommended Secondary Antibodies

|                                         |                                                                                                                                                                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>                                                                                                                                                                                                                 |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>                                                                                                                                                                                    |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>                                                                                                                                                                                                                |
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>                                                                                                                                                                                                                 |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>                                                                                                                                                                                                                 |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>                                                                                                                                                                                          |
| Rabbit Anti Mouse IgG (STAR8...)        | <a href="#">DyLight®800</a>                                                                                                                                                                                                         |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>                                                                                                                                                                                                                |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>                                                                                                                                                                                                                 |
| Human Anti Mouse IgG1 (HCA036...)       | <a href="#">HRP</a>                                                                                                                                                                                                                 |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®549</a> ,<br><a href="#">DyLight®649</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |

### Recommended Negative Controls

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

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
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'M317086:180618'

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