



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

MOUSE ANTI RAT INTERFERON GAMMA:Azide Free With HRP-conjugated Secondary Antibody

Catalog No.	Species	Isotype
DS-MB-01583	Rat	IgG1

Preparation

Immunogen: Recombinant rat IFN gamma

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

Specificity

This Product reacts with both rat and mouse IFN-gamma. Clone DB-1 exhibits high affinity binding to the natural and recombinant forms and effectively neutralises the anti viral activity of IFN-gamma. It also blocks the induction of Ia antigen expression on murine keratinocytes.

There is no cross-reaction with rodent IFN-alpha or IFN-beta or with human interferons.

Species Cross Reactivity: Mouse

*Antibody reactivity and working conditions may vary between species.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline

Approx. Protein: Concentrations: IgG concentration 1.0 mg/ml

Reconstitution: 0.5ml distilled water

Preservative Stabilizers: 125mM Trehalose, 0.09% Sodium Azide

Storage

Shelf Life: 18 months from date of shipment

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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			10ug/ml – 100ug/ml
Western Blotting			•	
Immunohistology - frozen	•			
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Functional Assays			•	
Immunofluorescence staining			•	
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Reference

- 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: 424-430.
- Graf, M. 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: 121 - 129.
- 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.

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4. 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: 1059-1071.
5. 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: 2366-12371.
6. Jacob, C.O. et al. (1989) Heterogeneous effects of IFN-gamma in adjuvant arthritis. *J. Immunol.* 142: 1500-1505.
7. 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: 177-183.

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