



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## MOUSE ANTI RAT INTERFERON GAMMA:Azide Free

With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-01584

**Species**  
Rat

**Isotype**  
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. DS-MB-01584 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.

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 - lyophilized

**Buffer Solution:** Phosphate buffered saline

**Approx. Protein: Concentrations:** IgG concentration 2.0 mg/ml

**Reconstitution:** 0.5ml distilled water

**Preservative Stabilizers:** 125mM Trehalose.

### **Storage**

Shelf Life: 12 months from date of reconstitution

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.**

**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**

<b>Options Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
ELISA	•			
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

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

### Reference

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: 424-430.
2. 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.

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3. 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.
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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