



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti Granzyme B

With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-01406

**Target Species**  
Human

**Isotype**  
IgG1

### Introduction

**Synonyms:** CGL1, CSPB, CTLA1, GRB

### Preparation

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

**Immunogen:** Purified human Granzyme B

**Fusion Partners:** Spleen cells from immunized Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Ig fraction - liquid

**Buffer Solution:** Tris buffered saline

**Preservative Stabilizers:** 0.09% Sodium Azide ( $\text{NaN}_3$ )

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

### Specificity

DS-MB-01406 recognises the serine protease Granzyme B, which is important in the induction of apoptosis in target cells by cytolytic lymphocytes (CTLs).

Granzyme B plays a key role in the induction of apoptosis by CTLs. After delivery to the target cell, Granzyme B activates the cascade of caspases that finally results in cell death.

This antibody has been reported to function as a capture reagent in ELISA assays for soluble Granzyme B in conjunction with biotin conjugated DS-MB-00405 as detection reagent.

**Species Crossreactivity:** Chimpanzee, Monkey and Rhesus Monkey. Please note, antibody reactivity and working conditions may vary between species.

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



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### Storage

Store at +4°C or at -20°C if preferred. This product should be stored undiluted. 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:** 18 months from date of shipment.

### 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 (1)	•			2ug/ml - 5ug/ml
Western Blotting			•	
IHC – Paraffin			•	
IHC - Frozen	•			
Flow Cytometry (2)	•			1/10 - 1/100
Immunoprecipitation	•			
Functional Assays			•	

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

(1) This antibody has been reported to function as a capture reagent in ELISA assays for soluble Granzyme B in conjunction with biotin conjugated DS-MB-00405 as detection reagent.

(2) Membrane permeabilization is required for this application. Use 10ul of the suggested working dilution to label 106 cells or 100ul whole blood.

### 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

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### **References**

1. Spaeny-Dekking, E. H. *et al.* (1998) Extracellular Granzymes A and B in humans: Detection of native species during CTL responses *in vitro* and *in vivo*. J. Immunol. 160: 3610-3616.
2. Wever, D. C. *et al.* (1998) The CD8+ Granzyme B+ T cell subset in peripheral blood from healthy individuals contains activated and apoptosis-prone cells. Immunol. 93: 383
3. Hsi, B-L. *et al.* (1986) Monoclonal antibodies to human amnion. J. Reprod. Immunol. 9: 11-21.

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