



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti Human Cystatin C

With HRP-conjugated Secondary Antibody

**Catalog No.**

DS-MB-01083

**Target Species**

Human

**Isotype**

IgG1

### Description

**Description:** Mouse Anti Human Cystatin C. Cystatin C is an inhibitor of cysteine proteases including Cathepsins B, H, K, L and S, and is ubiquitous in human tissues and body fluids.

**Specificity:** DS-MB-01083 detects human Cystatin C, a member of the type 2 cystatin superfamily. Cystatin C is a potent inhibitor of cysteine proteinases, both endogenous (lysosomal cathepsins), and pathogenic. Cystatin C is a 13kDa secreted protein which is found in high concentrations in biological fluids and is thought to be expressed by all human nucleated cells.

Changes in cystatin C have been documented in a number of cardiovascular diseases, including atherosclerosis, amyloid angiopathy and myocardial infarction. Its low molecular weight also means that cystatin C can be used as a marker of renal failure.

### Formulation

**Preparation:** Purified IgG prepared by affinity chromatography on Protein A

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG – liquid

**Buffer Solution:** Phosphate buffered saline pH7.4

**Preservative & Stabilizers:** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Fusion Partners:** Spleen cells from immunized Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.

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

### 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 dispatch.

**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			•	
Immunofluorescence staining			•	
Immunoassay	•			

**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

### References

1. Mussap, M. and Plebani, M. (2004) Biochemistry and clinical role of human cystatin C. Crit. Rev. Clin. Lab. Sci. 41: 467-550.

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