



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti Human Defensin

With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-01151

**Target Species**  
Human

**Isotype**  
IgG1

### Introduction

**Synonyms:** DEF1, DEF3, DEF4, DEFA2, MRS

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** 0.09% Sodium Azide, 2.5% BSA

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

### Specificity

DS-MB-01151 recognizes human defensin, expressed by mature neutrophils.

Defensins are a group of cyclic peptides containing 29-35 amino acids, which comprise approximately 30% of the total protein content of neutrophil azurophilic granules. Various functions have been reported for the defensins, including antibacterial and antifungal activity and chemotactic activity for monocytes. DEF-3 recognizes alpha defensins (human neutrophil peptides) 1-3. Binding to defensin 4 has not been tested.

**Histology Positive Control:** Human Tonsil

### 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

**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			•	
IHC – Frozen	•			0.1 - 0.5ug/ml
IHC – Paraffin (2)	•			0.2 - 1.0ug/ml
Flow Cytometry (1)	•			
Immunoprecipitation			•	
Functional Assays			•	

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

(1) Membrane permeabilization is required for this application.

(2) This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.

## References

1. Müller, C.A. *et al.* (2002) Human alpha-defensins HNPs-1, -2, and -3 in renal cell carcinoma: influences on tumor cell proliferation. *Am. J. Pathol.* 160: 1311-1324

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