



## 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](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

### Certificate of Analysis and Data Sheet

## Mouse Anti-Human HMB45 With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-01563

**Target Species**  
Human

**Isotype**  
IgG1

### Preparation

**Synonyms:** D12S53E, PMEL17, SILV

**Immunogen:** Extract of pigmented melanoma metastases from lymph nodes.

### Formulation

**Product Form:** Purified IgG - liquid

**Product Type:** Monoclonal Antibody

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** 0.1% Sodium Azide ( $\text{NaN}_3$ ), 1% Bovine Serum Albumin

### Specificity

This product recognises the HMB-45 antigen, an intracytoplasmic antigen expressed by the majority of melanomas and with other tumours demonstrating melanocytic differentiation. Tumours of lymphoid, epithelial, glial and mesenchymal origin are negative.

Normal adult melanocytes do not label with this antibody, although fetal and neonatal melanocytes stain variably.

### Applications

| Options<br>Functions              | YES | NO | Not determined | Recommended<br>Work dilution or<br>concentration |
|-----------------------------------|-----|----|----------------|--|
| Immunohistology -<br>Frozen       | •   |    |                | 1/40   |
| Immunohistology –<br>Paraffin (1) | •   |    |                | 1/40   |
| Western Blotting                  |     |    | •              |  |
| Elisa                             |     |    | •              |  |

**Note:** Other applications have not been tested. Optimal dilutions should be determined.

(1) This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections. Histology Positive Control Tissue: Melanoma

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



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### Secondary Antibody Applications

| Options<br>Functions | YES | NO | Not determined | Recommended<br>Work dilution or<br>concentration |
|----------------------|-----|----|----------------|--|
|                      | •   |    |                | 1:5000-1:10000                                   |

### 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.

### References

1. Racchi, C.E. *et al.* (1996) HMB-45. A review. *Applied Immunohistochemistry*. 4: 73-85.
2. Clements, D. *et Al.* (2009) Analysis of the oestrogen response in an angiomyolipoma derived xenograft model. *Endocr Relat Cancer*. 16: 59-72.

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