# gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker) Antibody

Mouse Monoclonal Antibody [Clone HMB45 + PMEL/783]

| Catalog No | Format | Size |
|---|---|---|
| 6490-MSM4-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 6490-MSM4-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 6490-MSM4-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

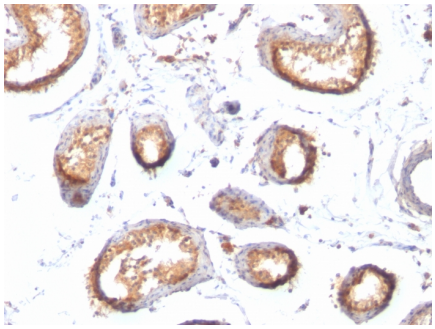
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

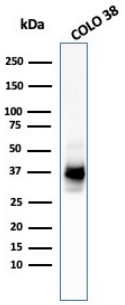
| | |
|---|---|
| **Clone** | HMB45 + PMEL/783 |
| **Gene Name** | PMEL |
| **Immunogen** | Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant human SILV protein (PMEL/783) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | 26-100kDa |
| **Cellular Localization** | Endoplasmic reticulum membrane, Endosome, Golgi apparatus, Melanosome, Multivesicular body, Secreted |
| **Species Reactivity** | Human |
| **Positive Control** | CACO-38 or SK-MEL-28 cells. Melanoma. |

**Optimal dilution for a specific application should be determined.*

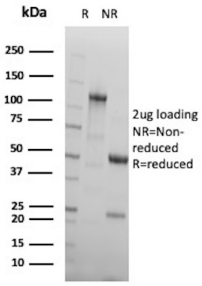
## Product Images for gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker) Antibody



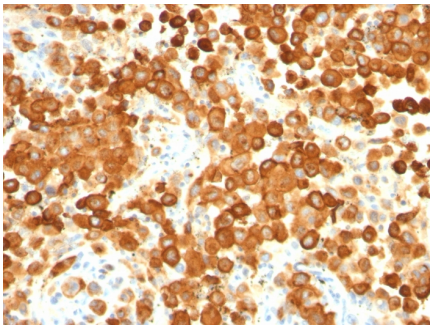
Formalin-fixed, paraffin-embedded human Testis stained with gp100 / Melanosome Monoclonal Antibody (HMB45 + PMEL/783).




Western Blot Analysis of COLO-38 cell lysate using gp100 / Melanosome MAb (HMB45 + PMEL/783).




SDS-PAGE Analysis of Purified Melanocyte protein PMEL Mouse Monoclonal Antibody (HMB45 + PMEL/783). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Melanoma stained with gp100 / Melanosome Monoclonal Antibody (HMB45 + PMEL/783).

## Specificity & Comments

The gp100 molecule is a 100kDa glycosylated protein that is cleaved into a small (26kDa) carboxy-terminal fragment and a larger amino- terminal section (60-64 kDa), which is subsequently cleaved to generate 26kDa and 34-38kDa. By immunohistochemistry, it specifically recognizes a protein in melanocytes and melanomas. This MAb reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. Metastatic amelanotic melanoma can often be confused with a variety of poorly differentiated carcinomas, large cell lymphomas, and sarcomas using H E stains alone. It is also difficult to differentiate melanoma from spindle cell carcinomas and various types of mesenchymal neoplasms. This MAb stains fetal and neonatal melanocytes, junctional and blue nevus cells, and malignant melanoma. This MAb also stains Angiomyolipoma (PEComa).

## Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Cardiovascular

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.