



## PRODUCT DATA SHEET

**Product:** Anti-gp100 / Melanosome / PMEL17 / SILV  
(Melanoma Marker) mAb, clone HMB45

**Cat. No.:** MC-2275 (100 µg)

**Synonyms:**

95kD amelanocyte-specific secreted glycoprotein, M-beta, Melanocyte lineage specific antigen GP100, Melanocyte protein Pmel 17, Melanoma associated ME20 antigen, Melanosomal matrix protein17, p100, p26, PMEL17, Premelanosome protein, Secreted melanoma-associated ME20 antigen, SILV, Silver homolog

**Specificity:**

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).

**Species Reactivity:**

Human, Does not react with dog and rat. Others-not tested.

**Ig Isotype:**

Mouse IgG<sub>1κ</sub>

**Cellular Localization:**

Cytoplasmic

**Positive Control:**

SK-MEL-28 cells or Melanoma

**Molecular Weight of Antigen:**

90-100kDa

**Immunogen:**

Extract of pigmented melanoma metastases from lymph nodes

**Format:**

200 µg/mL of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with protein stabilizer & 0.05% azide.

**Storage:**

Store at 4 °C.

**Applications and Suggested Dilutions:**

Flow Cytometry (0.5-1 µg/million cells in 0.1 mL)  
Immunofluorescence (0.5-1 µg/mL)  
Immunohistology (Formalin-fixed) (0.5-1.0 µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)  
The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.