

**Melanoma Marker, Pan Ab-1 (HMB45+ M2-7C10 + M2-9E3)**

Mouse Monoclonal Antibody

**Cat. #MS-939-S0, -S1, or -S (0.1ml, 0.5ml, or 1.0ml Supernatant)****Cat. #MS-939-R7 (7.0ml)** (Ready-to-Use for Immunohistochemistry)**Cat. #MS-939-PCS (5 Slides)** (Positive Control for Histology)**Please note this data sheet has been changed effective December 9, 2011**

**Description:** Melanoma associated antigens recognized by autologous cytotoxic T cells include MART-1, MAGE-1, MAGE-3, tyrosinase, gp100, gp75, BAGE-1, and GAGE-1.

**Comments:** Ab-1 is a cocktail of anti-gp100 (HMB45) and MART-1 antibodies. By immunohistochemistry, Ab-1 recognizes melanocytes and melanomas. This MAb cocktail reacts with junctional and blue nevus cells and with fetal and neonatal melanocytes. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. Ab-1 labels melanotic as well as amelanotic variants of melanomas. Ab-1 is extremely sensitive for labeling formalin-fixed, paraffin-embedded melanomas and other tumors showing melanocytic differentiation.

**Mol. Wt. of Antigen:** 100kDa (gp100) and 18kDa (MART-1)

**Species Reactivity:** Human and Horse. Others-not known.

**Clone Designation:** HMB45 (gp100), M2-7C10 (MART-1) and M2-9E3 (MART-1)

**Ig Isotype / Light Chain:** IgG<sub>1</sub> / κ + IgG<sub>2b</sub> / κ + IgG<sub>2b</sub> / κ

**Immunogen:** Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant hMART-1 protein (M2-7C10 and M2-9E3).

**Applications and Suggested Dilutions:**

- Immunohistology (Formalin/ paraffin)  
(Use Ab at 1:50-1:100 for 30 minute at RT)
- \* [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (Lab Vision Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Melanoma

**Cellular Localization:** Cytoplasmic

**Supplied As:**

Tissue culture supernatant with 0.09% sodium azide, or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

**Storage and Stability:**

Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

**Key References:**

1. Esclamado RM, *et. al.* American Journal of Surgery, 1986, 152(4):376-85.
2. Gown AM, *et. al.* American Journal of Pathology, 1986, 123(2):195-203.
3. Kawakami Y, *et. al.* Journal of Immunological Methods, 1997, 202(1):13-25.
4. Marincola FM, *et. al.* Journal of Immunotherapy with Emphasis on Tumor Immunology, 1996, 19(3):192-205.

**Limitations and Warranty:**

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This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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