Melanoma (gp100) Ab-1 (Clone HMB45)
Mouse Monoclonal Antibody
Cat. #MS-364-S0, -S1, or -S (0.1ml, 0.5ml, or 1.0ml Supernatant)
Cat. #MS-364-R7 (7.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-364-RQ (12.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-364-PCS (5 Slides) (Positive Control for Histology)

Comments: By immunohistochemistry, Ab-1 specifically recognizes a protein in melanocytes and melanomas. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Mol. Wt. of Antigen: 100kDa
Clone Designation: HMB45
Ig Isotype / Light Chain: IgG1 / κ
Immunogen: Extract of pigmented melanoma metastases from lymph nodes.¹

Applications and Suggested Dilutions:
- Western Blotting (Ab 1:50 for 2hrs at RT)
- Immunohistology (Formalin/paraffin)
  Use Ab 1:40-1:80 for 20 min at RT using UltraVision LP Detection Systems
Use Ab 1:50 for 20 min at RT using UltraVision Quanto Detection Systems
  * [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 under a given set of experimental conditions should be determined by the investigator.

Positive Control: Melanoma
Cellular Localization: Cytoplasmic

Provided 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:

Limitations and Warranty:
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:
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.

For Research Use Only
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Please note this data sheet has been changed effective December 8, 2011

Additional Key References:
6. Tanaka H; Imada A; Morikawa T; Shibusa T; Satoh M; Sekine K; Abe S. Diagnosis of pulmonary lymphangioleiomatosis by HMB45 in surgically treated spontaneous pneumothorax. European Respiratory Journal, 1995 Nov; 8(1):1879-82.
10. Bonetti F; Chiodera PL; Pea M; Martignoni G; Bosi F; Zamboni G; Mariuzzi GM. Transbronchial biopsy in lymphangiomatosis of the lung. HMB45 for diagnosis [see comments]. American Journal of Surgical Pathology, 1993; 17:1092-102.
12. Reyes-Mugica M; Chou P; Byrd S; Ray V; Castelli M; Gattuso P; Gonzalez-Crusi I. Nevomelanocytic proliferations in the central nervous system of children. Cancer, 1993; 72(7):2277-85.
15. Bonetti F; Pea M; Martignoni G; Mombello A; Colombi R; Zamboni G; Scarpa A; Piubello P; Bacchi CE; Gown AM. False-positive immunostaining of normal epithelia and carcinomas with ascites fluid preparations of antimalanoma monoclonal antibody HMB45. American Journal of Clinical Pathology, 1991 Apr; 95(4):454-9.