



Rev: A

Release Date: 03/13/2014

IVD

Melanosome (HMB45)

Clone	HMB45
Source	Mouse Monoclonal
Cat #	PM097-6ml RTU PR097-3ml RTU CM097-0.1ml CM097-0.5ml
Regulatory Status	IVD

Intended Use:

This antibody is intended for use to qualitatively identify Melanoma by light microscopy in formalin fixed, paraffin embedded tissue sections using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient's clinical history and other diagnostic tests. A qualified pathologist must perform evaluation of the test.

Summary and Explanation:

This antibody labels immature melanosomes in normal and pathological tissues. Thus the antibody labels fetal and neonatal melanocyte and junctional nevi. Intradermal nevi and normal resting adult melanocytes are negative. Positive staining does not provide distinction between benign and malignant melanocytic proliferation.

This antibody may be useful for the identification of melanoma and other tumors showing melanocytic differentiation. Differential identification is aided by the results from a panel of antibodies. In general, tumors of epithelial, lymphoid, glial, and mesenchymal origin are negative.

Immunogen: Extract of pigmented melanoma metastases from lymph nodes

Isotype: Mouse IgG1/ κ

Reagent Provided:

Concentrated format: Antibody to Melanosome is affinity purified and diluted in antibody diluent, with 1% bovine serum albumin (BSA) and 0.05% sodium azide (NaN₃). Recommended dilutions: 1:50 – 1:100.

The antibody dilution and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by individual laboratory.

Pre-diluted format: PathnSitu ready to use antibodies are pre titrated to optimal staining conditions. Further dilution may lose the activity and may yield to sub optimal staining.

Storage Recommendations: Store at 2°-8°C. Do not use after expiration date provided on the vial.

Staining Recommendations:

Antigen Retrieval Solution: Use **Tris-EDTA Buffer(PathnSitu Cat # PS009)** as antigen retrieval solution Heat Retrieval Method: Retrieve sections under steam pressure for 15 min using PathnSitu's MERS (Multi Epitope Retrieval System) then allow solution to cool for 10 minutes then transfer tissue sections/slides to distilled water.

Primary Antibody: Cover the tissue sections with primary antibody and incubate for 30 min at room temperature when used PathnSitu PolyExcel Detection System.

Detection System: Refer to PathnSitu PolyExcel detection system protocol or manufacturer's detection kit staining protocol when used other vendor detection system.

Cellular Localization: Cytoplasm

Positive Control: Melanoma

Troubleshooting: Follow the antibody specific protocol recommendations according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at 040-2701 5544 or techsupport@pathnsitu.com.

Limitations and Warranty: There are no warranties, expressed or implied, which extend beyond this description. PathnSitu is not liable for property damage, personal injury, or economic loss caused by this product.

Bibliography:

1. Gown AM, et al. Am J Pathol. 1986 May;123(2):195-203.
2. Kapur RP, et al. J Histochem Cytochem. 1992 Feb;40(2):207-12.
3. Esclamado RM, et al. Am J Surg. 1986 Oct;152(4):376-85