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Mouse anti-Pan Melanoma

CLSG80045

Lot:

Description:

This monoclonal antibody is specific to the neuraminidase-sensitive oligosaccharide side chain of a glycoconjugate present in immature melanosomes. The HMB45-reactive antigen is present in cutaneous melanocytes, prenatal and infantile retinal pigment epithelium and melanoma cells, and is thought to be oncofetal in nature. This antibody has been shown to label the majority of melanomas. The MART-1/Melan A recognizes a protein of 18kDa, identified at MART-1 (Melanoma Antigen Recognized by T cells 1) or Melan-A. Melan-A is a useful addition to melanoma panels as it is apparently specific for melanocytic lesions. Studies have also shown that MART-1 is more sensitive than HMB45 when labeling metastatic melanomas. Tyrosinase is a key enzyme involved in the initial stages of melanin biosynthesis. Studies have shown Tyrosinase to be a more sensitive marker when compared to HMB45 and MART-1. It has also shown to label a higher percentage of desmoplastic melanomas than HMB45. The combination of HMB45 and the MART-1 (cocktail) and Tyrosinase make this quadruple antibody cocktail a first-order pan melanoma screener.

Presentation:

1 ml, liquid containing 0.05% sodium azide (NaN_3) as a preservative.

Immunogen:

Pigmented melanoma metastases from lymphnodes(HMB45).
Recombinant human MART-1 protein (MART-1).
Recombinant tyrosinase protein (Tyrosinase).

For more information or to place an order please contact...

CEDARLANE®
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Clone: HMB45+M2-7C10+M2-9E3+T311

Isotype: IgG₁k+IgG_{2b}+IgG_{2b}+IgG_{2a}

Applications: This antibody is suitable for use in immunohistochemistry. We recommend a starting dilution of 1:25 – 1:50 for use with an ABC method, with an incubation period of 30 minutes at room temperature. Formalin-fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10mM citrate buffer, pH 6.0 prior to immunostaining.

For optimal results in various applications, it is recommended that each investigator determine dilutions and incubation period appropriate for individual use.

Positive Control: Metastatic melanoma in lymph node

Cellular Localization: Cytoplasmic

Storage: 4°C. Check label for expiry date.

References:

1. Chen *et al.* Proc. Natl. Acad. Sci. USA 92: 8125, 1995.
2. Gown *et al.* Am. J. Pathol. 123: 195, 1986.
3. Kapur *et al.* J. Histochem. Cytochem. 40: 207, 1992.
4. Kawakami *et al.* J. Immunol. Methods 202: 13, 1997.

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TN 06/17/05