Product name: Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3] ab732

Description: Mouse monoclonal [HMB45 + M2-7C10 + M2-9E3] to Melanoma

Host species: Mouse

Tested applications: Suitable for: Flow Cyt, IHC-P, IHC-Fr

Species reactivity: Reacts with: Mouse, Human

predicted to work with: Rat

Immunogen: HMB45 - Pigmented melanoma metastases from LN MART-1 - Recombinant human MART-1 protein

Epitope: HMB45 and MART-1

Positive control: IHC-P: Metastatic melanoma in lymph node.

General notes: Please note that this antibody is an oligoclonal antibody. It is a cocktail of monoclonal antibodies that have been carefully selected. Oligoclonal antibodies have not only the specificity and batch-to-batch consistency of a monoclonal antibody, but also have the advantage of the sensitivity of a polyclonal antibody due to their ability to recognize multiple epitopes on an antigen. This cocktail is HMB45 + two different clones of MART-1[M2-7C10] + [M2-9E3]. HMB34 isotype: IgG1/kappa and both clones of MART-1: IgG2b + IgG2b

HMB-45 and MART-1 are coexpressed in the majority of melanomas, as well as uniquely expressed in certain cases. Thus, the HMB-45 and MART-1 cocktail is potentially more sensitive than HMB-45 or MART-1 alone. MART-1 is a cocktail of clones M2-7C10 and M2-9E3. The combination of HMB-45 and the MART-1 cocktail make this triple antibody cocktail a first-order pan melanoma screener.

This product was changed from ascites to tissue culture supernatant on [14/07/17]. The following lots are from ascites and are still in stock as of [14/07/17] – [GR313023, GR3175007]. Lot numbers higher than [GR313023] will be from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly.

Properties

Form: Liquid

Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze /
thaw cycle.

**Storage buffer**
- Preservative: 0.099% Sodium azide
- Constituents: 0.9% Proprietary component, 99% Water

**Purity**
- Tissue culture supernatant

**Primary antibody notes**
- HMB-45 and MART-1 are coexpressed in the majority of melanomas, as well as uniquely expressed in certain cases. Thus, the HMB-45 and MART-1 cocktail is potentially more sensitive than HMB-45 or MART-1 alone. MART-1 is a cocktail of clones DT101 and BC199. The combination of HMB-45 and the MART-1 cocktail make this triple antibody cocktail a first-order pan melanoma screener.

**Clonality**
- Monoclonal

**Clone number**
- HMB45 + M2-7C10 + M2-9E3

**Myeloma**
- unknown

**Isotype**
- IgG2b

**Light chain type**
- kappa

### Applications

Our **Abpromise guarantee** covers the use of **ab732** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| Flow Cyt    |           | Use at an assay dependent concentration. PubMed: 22147606  
  **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody. |
| IHC-P       | ★★★★☆     | 1/100 - 1/200.  
  The staining intensity of this melanoma cocktail is enhanced by performing heat mediated antigen retrieval using a high pH buffer. The HMB-45 portion of this antibody will stain with citrate buffer, pH 6.0; however, data shows the MART-1 portion of this cocktail may be negative unless a high pH buffer is used. We therefore, strongly recommend that you do not use citrate buffer for this antibody cocktail. |
| IHC-Fr      |           | Use at an assay dependent concentration. |

### Target

**Relevance**
- Malignant melanoma is a malignant neoplasm of melanocytes, arising de novo or from a pre existing benign nevus, which occurs most often in the skin but also may involve other sites.

**Cellular localization**
- Membrane; Single-pass membrane protein

### Images
ab732 staining Melanoma in Human lymph node tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).

Ab732 staining murine melanoma metastasis tissue sections by IHC-P. Tissue sections were paraformaldehyde fixed and blocked with 0.5% Perkin-Elmer TNB Blocking Buffer for 30 minutes at 25°C. The primary antibody was diluted 1/50 and incubated for 18 hours at 4°C. An Alexa Fluor 488® conjugated goat anti-mouse was used as the secondary.

Confocal image shows melanoma in magenta, vessels in red (Collagen Type IV, ab19808), and melanin in cyan. Tissue is perfusion-fixed 15µm cryostat sections mounted on slides (i.e., lightly fixed, but not paraffin embedded).

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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