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

**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.

**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

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Flow Cyt</td>
<td>ab170192</td>
<td>Use at an assay dependent concentration. PubMed: 22147606</td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/100 - 1/200.</td>
<td>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.</td>
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<tr>
<td>IHC-Fr</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
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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).

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