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

Overview

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.

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 /
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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 22147606 ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.</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>
</tr>
<tr>
<td>IHC-Fr</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

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
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3] (ab732)

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 parafomaldehyde 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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