abcam

ab733

Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3 + T311]

Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3 + T311] (ab733) is a mouse recombinant multiclonal antibody detecting Melanoma in **Flow Cytometry (Intra), IHC-P, IHC-Fr, ICC/IF**. Suitable for **Human**.

- Recombinant format for unrivalled batch-batch consistency
- Over 10 publications
- Trusted since 2002

Key facts

Isotype	IgG
Host species	Mouse
Storage buffer	Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Multiclonal
Clone number	HMB45 + M2-7C10 + M2-9E3 + T311
Purification technique	Affinity purification
Specificity	The HMB45 clone reacts with a 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. MART-1 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.
Light chain type	kappa

Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Antibodies in this cocktail- HMB45, MART-1 and Tyrosinase are affinity purified.

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/25 - 1/50
Notes	It is sometimes difficult to interpret DAB stained melanomas due to endogenous pigment, therefore we recommend you substitute an AEC or a Fast Red substrate protocol.

ICC/IF

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-Fr

Expected

Species	Human
Dilution info	-
Notes	ABC method.

Flow Cyt (Intra)

Tested

Species	Human

Dilution info	1/100
Notes	-

Target data

See full target information Melanoma

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3 + T311] (ab733) is a mouse recombinant recombinant multiclonal antibody and is validated for use in Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF) in Human samples.

Trusted by the scientific community
Anti-Melanoma [HMB45 + M2-7C10 + M2-9E3 + T311] (ab733) was first used in a scientific publication in 2002 and has been cited over 10 times in peer-reviewed journals.

What is an oligoclonal antibody?
This oligoclonal antibody 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.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

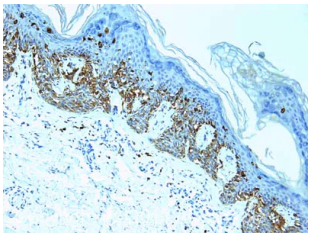
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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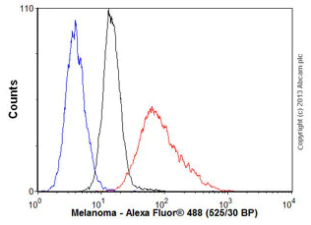
3 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3 + T311] (ab733)

IHC image of ab733 staining in human melanoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab733, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

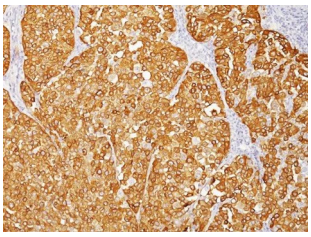
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Flow Cytometry (Intracellular) - Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3 + T311] (ab733)

Overlay histogram showing MALME 3M cells stained with ab733 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab733, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG (1µg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3 + T311] (ab733)

ab733 staining human melanoma by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.