abcam

Product datasheet

Anti-Melanoma antibody [HMB45 + M2-7C10 + M2-9E3 + T311] ab733

重组

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概述

产品名称	Anti-Melanoma抗体[HMB45 + M2-7C10 + M2-9E3 + T311]
描述	小鼠重组multiclonal [HMB45 + M2-7C10 + M2-9E3 + T311] to Melanoma
宿主	Mouse
特异性	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.
经测试应用	**适用于:** ICC/IF, Flow Cyt (Intra), IHC-Fr, IHC-P
种属反应性	**与反应:** Human
免疫原	HMB45 - Pigmented melanoma metastases from LN MART-1 - Recombinant human MART-1 protein Tyrosinase - Recombinant tyrosinase protein
阳性对照	Metastatic melanoma in lymph node.
常规说明	The combination of HMB45, MART-1 (M2-7C10 + M2-9E3) and Tyrosinase (T311) (**SwissProt: P14679** Human, **Omim: 606933** Human, **Entrez Gene: 22173** Mouse, **Entrez Gene: 308800** Rat) make this quadruple antibody cocktail a first-order pan melanoma screener, and may prove to be a valuable marker for melanoma metastasis in sentinel lymph nodes (see reference 3.). The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

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.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.1% Sodium azide Constituents: PBS, Carrier protein
纯度	Affinity purified
纯化说明	Antibodies in this cocktail- HMB45, MART-1 and Tyrosinase are affinity purified.
Primary antibody说明	The combination of HMB45, MART-1 (DT101 + BC199) and Tyrosinase (T311) make this quadruple antibody cocktail a first-order pan melanoma screener, and may prove to be a valuable marker for melanoma metastasis in sentinel lymph nodes (see reference 3.).
克隆	Recombinant Multiclonal
克隆编号	HMB45 + M2-7C10 + M2-9E3 + T311
骨髓瘤	unknown
同种型	IgG
轻链类型	kappa

应用

The Abpromise guarantee Abpromise™承诺保证使用ab733于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt (Intra)		1/100.
IHC-Fr		Use at an assay dependent concentration. ABC method.
IHC-P	★★★☆☆ (1)	1/25 - 1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. 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.

靶标

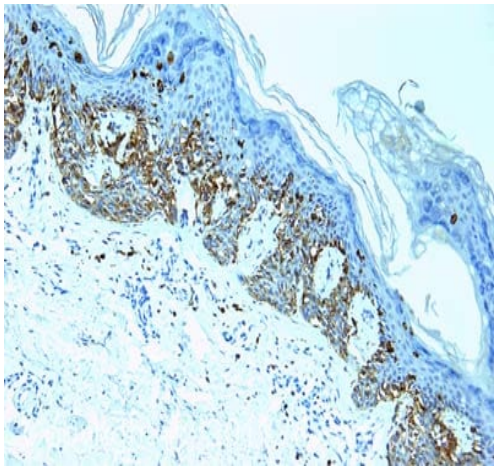
相关性

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.

细胞定位

Membrane; Single-pass membrane protein

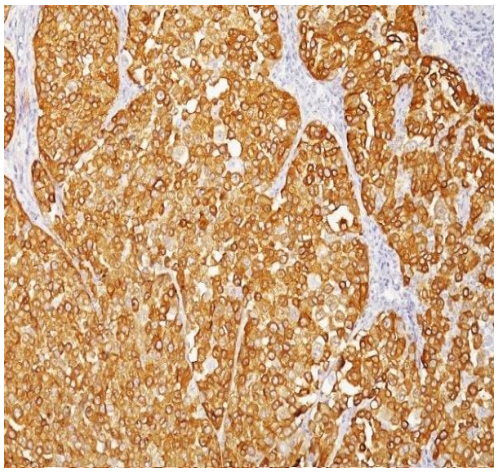
图片



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

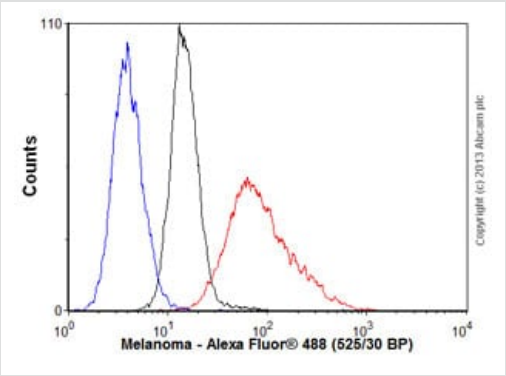
IHC image of ab733 staining in human melanoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. 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.



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).



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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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