Product datasheet

Anti-Melanoma gp100 antibody ab27435

Rating: 4.2 out of 5

1 Abreviews  1 References  1 Image

Overview

Product name: Anti-Melanoma gp100 antibody
Description: Rabbit polyclonal to Melanoma gp100
Host species: Rabbit
Specificity: ab27435 recognises melanoma gp100.
Tested applications: Suitable for: IHC-P
Species reactivity: Reacts with: Human
Immunogen: Recombinant fragment corresponding to Melanoma gp100.
Positive control: Human melanoma
General notes: This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: pH: 7.6
Preservative: 0.1% Sodium azide
Constituents: PBS, 1% BSA
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab27435 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>IHC-P</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application notes**

IHC-P: 1/50 for 10 min at room temperature. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. In particular, boil tissue sections in 10mM citrate buffer pH 6.0 for 10 min and then cool at room temperature for 20 min.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

**Target**

**Function**

Plays a central role in the biogenesis of melanosomes. Involved in the maturation of melanosomes from stage I to II. The transition from stage I melanosomes to stage II melanosomes involves an elongation of the vesicle, and the appearance within of distinct fibrillar structures. Release of the soluble form, ME20-S, could protect tumor cells from antibody mediated immunity.

**Tissue specificity**

Preferentially expressed in melanomas. Some expression was found in dysplastic nevi. Not found in normal tissues nor in carcinomas. Normally expressed at low levels in quiescent adult melanocytes but overexpressed by proliferating neonatal melanocytes and during tumor growth.

**Sequence similarities**

Belongs to the PMEL/NMB family.

Contains 1 PKD domain.

**Domain**

The RPT domain is essential for the generation of the fibrillar matrix of melanosomes.

The luminal domain is necessary for correct processing and trafficking to melanosomes.

**Post-translational modifications**

A small amount of P1/P100 (major form) undergoes glycosylation to yield P2/P120 (minor form). P2 is cleaved by a furin-like proprotein convertase (PC) in a pH-dependent manner in a post-Golgi, prelysosomal compartment into two disulfide-linked subunits: a large luminal subunit, M-alpha/ME20-S, and an integral membrane subunit, M-beta. Despite cleavage, only a small fraction of M-alpha is secreted, whereas most M-alpha and M-beta remain associated with each other intracellularly. M-alpha is further processed to M-alpha N and M-alpha C. M-alpha C further undergoes processing to yield M-alpha C1 and M-alpha C3 (M-alpha C2 in the case of PMEL17-is or PMEL17-ls). Formation of intralumenal fibrils in the melanosomes requires the formation of M-alpha that becomes incorporated into the fibrils. Stage II melanosomes harbor only Golgi-modified Pmel17 fragments that are derived from M-alpha and that bear sialylated O-linked oligosaccharides.

N-glycosylated. O-glycosylated; contains sialic acid.

**Cellular localization**

Secreted and Endoplasmic reticulum membrane. Golgi apparatus. Melanosome. Endosome > multivesicular body. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Localizes predominantly to intralumenal vesicles (ILVs) within multivesicular bodies. Associates with ILVs found within the lumen of premelanosomes and melanosomes and particularly in compartments that serve as precursors to the striated stage II premelanosomes.

**Images**

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
</table>
Paraffin embedded formalin fixed melanoma stained with anti melanoma gp100 (ab27435).

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

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