




Product datasheet

Anti-Melanoma gp100 antibody ab52058

★★★★☆ [2 Abreviews](#) [7 References](#) [1 Image](#)

Overview

Product name	Anti-Melanoma gp100 antibody
Description	Goat polyclonal to Melanoma gp100
Host species	Goat
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow, Dog, Pig 
Immunogen	Synthetic peptide: CPIGENSPLLSGQQ , corresponding to C terminal amino acids 647-660 of Human Melanoma gp100  Run BLAST with  Run BLAST with
Positive control	Human skin lysate
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality	Polyclonal
Isotype	IgG

Applications

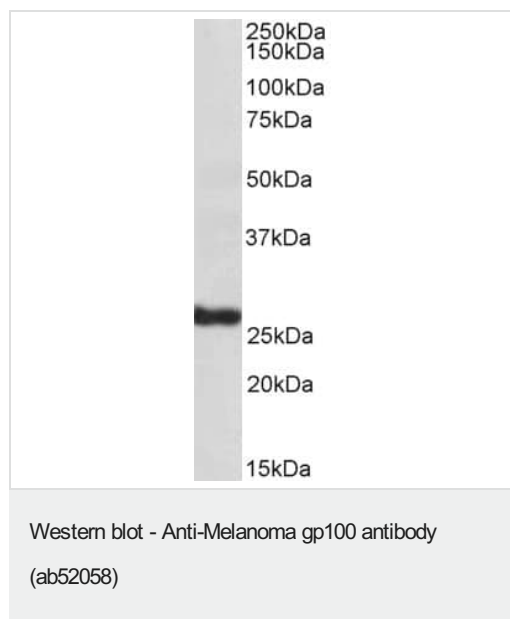
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52058 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 26 kDa (predicted molecular weight: 70 kDa). Approx 26kDa band observed in Human Skin lysates, corresponding to the M-beta fragment of the precursor protein (Leonhardt et al, Mol Biol Cell. 2013 Apr;24(7):964-81.PMID: 23389629). Calculated MW of 70.3kDa according to NP_008859.1. Primary incubation was 1 hour.

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 intraluminal 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 intraluminal 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



Anti-Melanoma gp100 antibody (ab52058) at 1 µg/ml + Human Skin lysate at 35 µg

Predicted band size: 70 kDa

Additional bands at: 26 kDa (possible immature (unprocessed))

Primary incubation was 1 hour. Detected by chemiluminescence.

The 26kDa band observed in Human Skin lysate corresponds to the precursor protein M-beta fragment (Leonhardt et al, Mol Biol Cell. 2013 Apr;24(7):964-81.PMID: 23389629).

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