

Recombinant Human Melanoma gp100 protein ab132146

[1 References](#) [1 Image](#)

Description

Product name	Recombinant Human Melanoma gp100 protein
Expression system	Wheat germ
Accession	<u>P40967</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MDLVLKRCLLHLAVIGALLAVGATKVPRNQDWLGVS RQL RTKAWN RQL YP EWTEAQR LDCWRGGQVSLKVSNDGPTLIGANASFSIALN FPGSQKVL PDG QVIWVNNTIINGSQVWGGQPVYPQETDDACIFPDGGPCPS GSWSQKR SFV YVWKTWGQYWQVLGGPVSGLSIGTGRAMLGHTHTMEVTVY HRRGSR SYVPL AHSSSAFTITDQVPFSVSVSQLRALDGGNKHFLRNQPLTF ALQLHDPSGY LAEADLSYTWDFGDSSGTLISRALVVHTYLEPGPVTAQV VLQAAIPLTS CGSSPVPGTTDGHRPTAEAPNTTAGQVPTTEVVGTTPGQ APTAEPSGTT S VQVPTTEVISTAPVQMPTAESTGMTPEKVPVSEVMGTTLA EMSTPEATGM TPAEVSMVLSGTTAAQVTTTEWVETTARELPIPEPEGPDA SSIMSTESI TGSLGPLLDGTATLRLVKRQVPLDCVLYRYGSFSVTLDIVQ GIESAEILQ AVPSGEGDAFELTVSCQGGLPKEACMEISSPGCQPPAQ RLCQPVLPSPAC QLVLHQILKGGSGTYCLNVSLADTNSLAVVSTQLIMPGQEA GLGQVPLIV GILLVLMVVLASLIYRRRLMKQDFSV PQLPHSSSHWLRL PRIFCSCPIG ENSPLL SGQQV

Predicted molecular weight	97 kDa including tags
Amino acids	1 to 661
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab132146** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE ELISA Western blot
Form	Liquid

Preparation and Storage

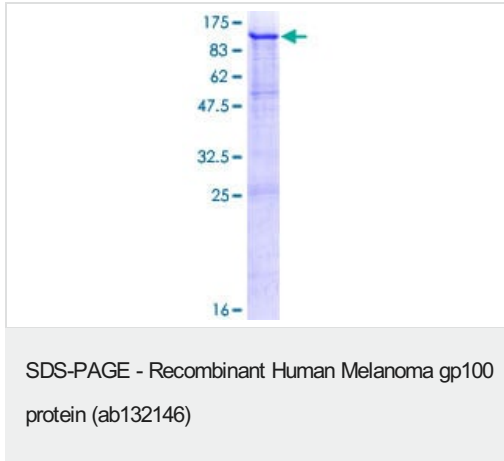
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

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



12.5% SDS-PAGE analysis of ab132146 stained with Coomassie Blue.

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