

Rabbit Melanoma gp100/PMEL Polyclonal Antibody | anti-PMEL antibody

Anti-Melanoma gp100/PMEL Antibody

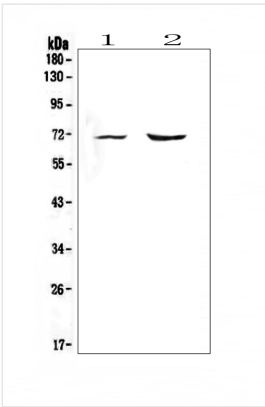
CATALOG # AAA124921	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Melanoma gp100/PMEL; Polyclonal Antibody; Anti-Melanoma gp100/PMEL Antibody; Melanocyte protein PMEL; ME20-M; ME20M; Melanocyte protein Pmel 17; Melanocytes lineage-specific antigen GP100; Melanoma-associated ME20 antigen; P1; P100; Premelanosome protein; Silver locus protein homolog; M-alpha; 95 kDa melanocyte-specific secreted glycoprotein; P26; Secreted melanoma-associated ME20 antigen; ME20-S; ME20S; M-beta; PMEL; D12S53E; PMEL17; SILV; anti-PMEL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	668
Applicable Applications for anti-PMEL antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human Melanoma gp100/PMEL (KVPRNQDWLGVSRLRTKAWNRQLYPEWTEAQRDL).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 1. Western blot analysis of Melanoma gp100 using anti-Melanoma gp100 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat heart tissue lysate, Lane 2: mouse heart tissue lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Melanoma gp100 antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Melanoma gp100 at approximately 70KD. The expected band size for Melanoma gp100 is at 70KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PMEL antibody	Rabbit IgG polyclonal antibody for Melanoma gp100/PMEL detection. Tested with WB in Human; Mouse; Rat. Background: This gene is mapped to 12q13.2. It encodes a melanocyte-specific type I transmembrane glycoprotein. The encoded protein is enriched in melanosomes, which are the melanin-producing organelles in melanocytes, and plays an essential role in the structural organization of premelanosomes. This protein is involved in generating internal matrix fibers that define the transition from Stage I to Stage II melanosomes. This protein undergoes a complex pattern of posttranslational processing and modification that is essential to the proper functioning of the protein. A secreted form of this protein that is released by proteolytic ectodomain shedding may be used as a melanoma-specific serum marker. Alternate splicing results in multiple transcript variants.
References	1. Adema, G. J., de Boer, A. J., Vogel, A. M., Loenen, W. A. M., Figdor, C. G. Molecular characterization of the melanocyte lineage-specific antigen gp100. J. Biol. Chem. 269: 20126-20133, 1994. 2. Bailin, T., Lee, S.-T., Spritz, R. A. Genomic organization and sequence of D12S53E (Pmel 17), the human homologue of the mouse silver (si) locus. J. Invest. Derm. 106: 24-27, 1996. 3. Berson, J. F., Harper, D. C., Tenza, D., Raposo, G., Marks, M. S. Pmel17 initiates premelanosome morphogenesis within multivesicular bodies. Molec. Biol. Cell 12: 3451-3464, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	318037593
NCBI GeneID	6490
NCBI Accession #	NP_001186982.1
NCBI GenBank Nucleotide #	NM_001200053.1
UniProt Accession #	P40967; Q12763; Q14448; Q14817; Q16565; B3KS57; B7Z6D7
NCBI Official Full Name	melanocyte protein PMEL isoform 2
NCBI Official Synonym Full Names	premelanosome protein
NCBI Official Symbol	PMEL

NCBI Official Synonym Symbols	P1; SI; SIL; ME20; P100; SILV; ME20M; gp100; ME20-M; PMEL17; D12S53E
NCBI Protein Information	melanocyte protein PMEL
UniProt Protein Name	Melanocyte protein PMEL
UniProt Gene Name	PMEL
UniProt Synonym Gene Names	D12S53E; PMEL17; SILV; ME20M; ME20-S; ME20S

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/melanoma-gp100-pmel-antibody-western-blot-elisa/124921>