



PMEL/Melanoma gp100 (HMB45) Rabbit mAb (Ready to Use)

Catalog No	YP-rAb-18284
Isotype	IgG
Reactivity	Human,Mouse
Applications	IHC
Gene Name	PMEL D12S53E PMEL17 SILV
Protein Name	95 kDa melanocyte specific secreted glycoprotein;95 kDa melanocyte-specific secreted glycoprotein;D12S53E;gp100;M-beta;ME20;ME20 M/ME20 S;ME20-M;ME20-S;ME20M;ME20M/ME20S;ME20S;Melanocyte lineage specific antigen GP100;Melanocyte protein mel 17;Melanocyte protein Pmel 17;Melanocyte protein Pmel 17 precursor;Melanocytes lineage-specific antigen GP100;Melanoma associated ME20 antigen;Melanoma gp100;Melanoma-associated ME20 antigen;Melanosomal matrix protein 17;Melanosomal matrix protein17;P1;p100;p26;PMEL 17;PMEL;PMEL_HUMAN;PMEL17;Premelanosome protein;Secreted melanoma-associated ME20 antigen;SI;SIL;SILV;Silver (mouse homolog) like;Silver homolog;Silver locus protein homolog;Silver, mouse, homolog of
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of PMEL
Formulation	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source	Monoclonal, Rabbit,IgG
Dilution	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	2° C to 8° C/1 year,Ship by ice bag
Synonyms	95 kDa melanocyte specific secreted glycoprotein ; 95 kDa melanocyte-specific secreted glycoprotein ; D12S53E ; gp100 ; M-beta ; ME20 ; ME20 M/ME20 S ; ME20-M ; ME20-S ; ME20M ; ME20M/ME20S ; ME20S ; Melanocyte lineage specific antigen GP100 ; Melanocyte protein mel 17 ; Melanocyte protein Pmel 17 ; Melanocyte protein Pmel 17 precursor ; Melanocytes lineage-specific antigen GP100 ; Melanoma associated ME20 antigen ; Melanoma gp100 ; Melanoma-associated ME20 antigen ; Melanosomal matrix protein 17 ; Melanosomal matrix protein17 ; P1 ; p100 ; p26 ; PMEL 17 ; PMEL ; PMEL_HUMAN ; PMEL17 ; Premelanosome protein ; Secreted





melanoma-associated ME20 antigen ; SI ; SIL ; SILV ; Silver ; Mouse homolog ; like ; Silver homolog ; Silver locus protein homolog ; Silver, Mouse, homolog of

Observed Band

Calculated Molecular Weight

Cell Pathway Cytoplasmic

Tissue Specificity Skin/ Melanoma

Function Could be a melanogenic enzyme. Could represent an oncofetal self-antigen that is normally expressed at low levels in quiescent adult melanocytes but overexpressed by proliferating neonatal melanocytes and during tumor growth. Release of the soluble form, ME20-S, could protect tumor cells from antibody mediated immunity.,similarity:Belongs to the Pmel-17/NMB family.,similarity:Contains 1 PKD domain.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subcellular location:Probably product of proteolytic cleavage.,tissue specificity:Preferentially expressed in melanomas. Some expression was found in dysplastic nevi. Not found in normal tissues nor in carcinomas.,

Background This gene 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. [provided by RefSeq, Jan 2011],

matters needing attention Avoid repeated freezing and thawing!

Usage suggestions This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

