

ARG64008 anti-Melanoma gp100 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Melanoma gp100
Tested Reactivity	Hu
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Melanoma gp100
Species	Human
Immunogen	CPIGENSPLLSGQQ
Conjugation	Un-conjugated
Alternate Names	Premelanosome protein; SILV; ME20; Melanocyte protein Pmel 17; ME20-M; Secreted melanoma-associated ME20 antigen; 95 kDa melanocyte-specific secreted glycoprotein; Silver locus protein homolog; ME20S; D12S53E; SIL; P1; Melanocyte protein PMEL; PMEL17; ME20-S; Melanoma-associated ME20 antigen; gp100; ME20M; P100; SI; P26; Melanocytes lineage-specific antigen GP100

Application Instructions

Application table	Application	Dilution
	WB	Assay - dependent
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformatics

Database links

[GeneID: 6490 Human](#)

[Swiss-port # P40967 Human](#)

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]

Research Area

Cancer antibody; Controls and Markers antibody; Metabolism antibody; Signaling Transduction antibody

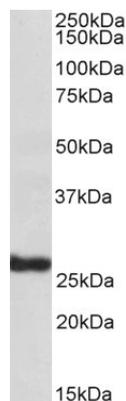
Calculated Mw

70 kDa

PTM

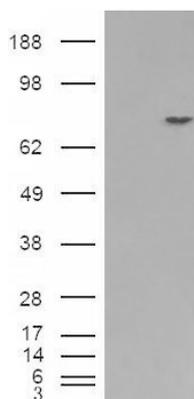
A small amount of P1/P100 (major form) undergoes glycosylation to yield P2/P120 (minor form). P2 is cleaved by a furin-like proprotein convertase (PC) in a pH-dependent manner in a post-Golgi, prelysosomal compartment into two disulfide-linked subunits: a large luminal subunit, M-alpha/ME20-S, and an 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.

Images



ARG64008 anti-Melanoma gp100 antibody WB image

Western blot: 35 µg of Human skin lysate (in RIPA buffer) stained with ARG64008 anti-Melanoma gp100 antibody at 1 µg/ml dilution and incubated at RT for 1 hour.



ARG64008 anti-Melanoma gp100 antibody WB image

Western blot: 1). Mock transfection; 2) Human SILV (RC200663) expressing plasmid transfected HEK293 cell lysate stained with ARG64008 anti-Melanoma gp100 antibody.