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MART-1/Melan-A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11689c

Specification

MART-1/Melan-A Antibody (Center) - Product Information

Application	**WB, FC,E**
Primary Accession	Q16655
Other Accession	NP_005502.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**34-60**

MART-1/Melan-A Antibody (Center) - Additional Information

Gene ID 2315

Other Names
Melanoma antigen recognized by T-cells 1, MART-1, Antigen LB39-AA, Antigen SK29-AA, Protein Melan-A, MLANA, MART1

Target/Specificity
This MART-1/Melan-A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-60 amino acids from the Central region of human MART-1/Melan-A.

Dilution
WB~~1:2000
FC~~1:25
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MART-1/Melan-A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MART-1/Melan-A Antibody (Center) - Protein Information

Name MLANA

Synonyms MART1

Function Involved in melanosome biogenesis by ensuring the stability of GPR143. Plays a vital role in the expression, stability, trafficking, and processing of melanocyte protein PMEL, which is critical to the formation of stage II melanosomes.

Cellular Location
Endoplasmic reticulum membrane; Single-pass type III membrane protein. Golgi apparatus. Golgi apparatus, trans-Golgi network membrane. Melanosome. Note=Also found in small vesicles and tubules dispersed over the entire cytoplasm. A small fraction of the protein is inserted into the membrane in an inverted orientation Inversion of membrane topology results in the relocalization of the protein from a predominant Golgi/post-Golgi area to the endoplasmic reticulum. Melanoma cells expressing the protein with an inverted membrane topology are more effectively recognized by specific cytolytic T-lymphocytes than those expressing the protein in its native membrane orientation

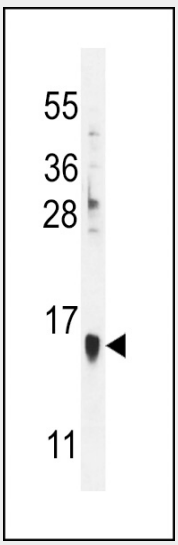
Tissue Location
Expression is restricted to melanoma and melanocyte cell lines and retina

MART-1/Melan-A Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MART-1/Melan-A Antibody (Center) - Images



MART-1/Melan-A Antibody (Center) (Cat. #AP11689c) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the MART-1/Melan-A antibody detected the MART-1/Melan-A protein (arrow).

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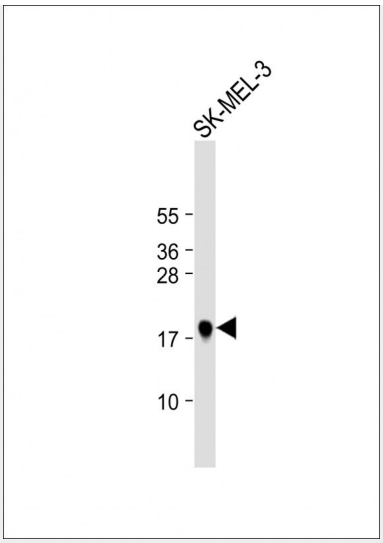
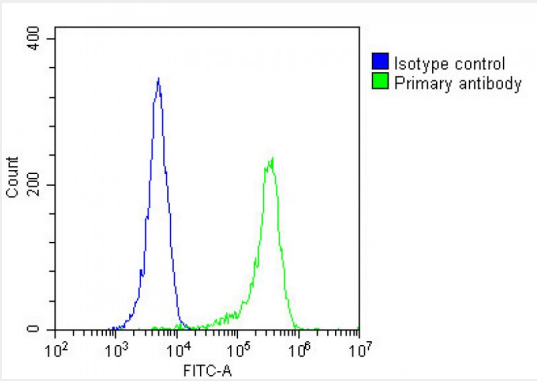


Anti-MLANA Antibody (Center) at 1:2000 dilution + SK-MEL-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 13 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing A2058 cells stained with AP11689c(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

MART-1/Melan-A Antibody (Center) - Background

Involved in melanosome biogenesis by ensuring the stability of GPR143. Plays a vital role in the expression, stability, trafficking, and processing of melanocyte protein SILV/PMEL17, which is critical to the formation of stage II melanosomes.

MART-1/Melan-A Antibody (Center) - References

Li, Y., et al. J. Mol. Biol. 399(4):596-603(2010)
Giordano, F., et al. Hum. Mol. Genet. 18(23):4530-4545(2009)
Fernandez, L.P., et al. Exp. Dermatol. 18(7):634-642(2009)
Beltraminelli, H., et al. Am J Dermatopathol 31(3):305-308(2009)
Serana, F., et al. J Transl Med 7, 21 (2009) :