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MART-1/Melan-A Antibody (C-term) (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2133a

Product Information

Application	WB, E
Primary Accession	Q16655
Other Accession	NP_005502
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	610CT14.6.4
Calculated MW	13157
Antigen Region	60-92

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 mice immunized with a KLH conjugated synthetic peptide between 60-92 amino acids from the C-terminal region of human MART-1/Melan-A.
Dilution	WB~~1:100~1600 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
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 (C-term) (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

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

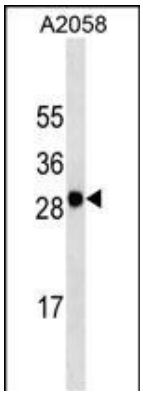
Background

MLANA is 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.

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) :

Images



MART-1/Melan-A Antibody (C-term)(Ascites)(Cat. #AM2133a) western blot analysis in A2058 cell line lysates (35µg/lane).This demonstrates the MART-1/Melan-A antibody detected the MART-1/Melan-A protein (arrow).