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Anti-MART-1 / Melan-A / MLANA Antibody
Recombinant Mouse Monoclonal Antibody
Catalog # AH13226

Specification

Anti-MART-1 / Melan-A / MLANA Antibody - Product Information

Application	,1,14,3,4,
Primary Accession	Q16655
Other Accession	154069
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	13157

Anti-MART-1 / Melan-A / MLANA Antibody - Additional Information

Gene ID 2315

Other Names
Antigen LB39-AA, Antigen SK29-AA, Melanoma antigen recognized by T-cells 1, MLAN-A, MLANA

Format
200ug/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

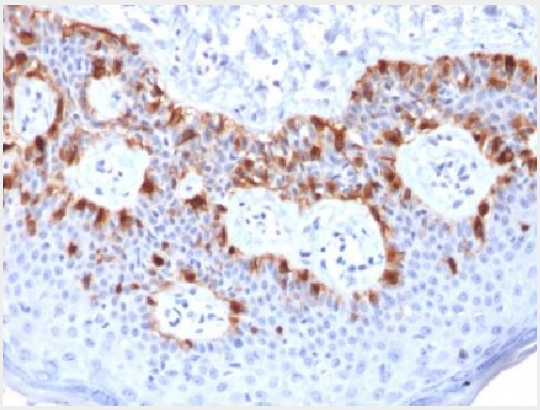
Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

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

Anti-MART-1 / Melan-A / MLANA Antibody - Protein Information

Name MLANA

Synonyms MART1



Formalin-fixed, paraffin-embedded human Melanoma stained with Melan-A Recombinant Mouse Monoclonal Antibody (rMLANA/788).

Anti-MART-1 / Melan-A / MLANA Antibody - Background

This antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T cells 1) or Melan-A. MART-1 is a newly identified melanocyte differentiation antigen recognized by autologous cytotoxic T lymphocytes. Seven other melanoma associated antigens recognized by autologous cytotoxic T cells include MAGE-1, MAGE-3, tyrosinase, gp100, gp75, BAGE-1, and GAGE-1. Subcellular fractionation shows that MART-1 is present in melanosomes and endoplasmic reticulum. This MAb labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

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

Anti-MART-1 / Melan-A / MLANA Antibody - 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