



PRODUCT DATA SHEET

Product: Anti-MART-1 / Melan-A / MLANA
(Melanoma Marker) mAb, clone A103

Cat. No.: MC-2182 (100 µg)

Synonyms:

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

Specificity:

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.

Species Reactivity:

Human, Mouse and Rat and Dog. Others-not tested.

Ig Isotype:

Mouse IgG_{1κ}

Cellular Localization:

Cytoplasmic

Positive Control:

SK-MEL-13 and SK-MEL-19 Melanoma cell lines; Melanomas

Molecular Weight of Antigen:

20-22kDa (doublet)

Immunogen:

Recombinant hMART-1 protein

Format:

200 µg/mL of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with protein stabilizer & 0.05% azide.

Storage:

Store at 4 °C.

Applications and Suggested Dilutions:

Flow Cytometry (0.5-1 µg/million cells in 0.1 mL)

Immunofluorescence (0.5-1 µg/mL)

Immunohistology (Formalin-fixed) (0.5-1.0

µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)

Western blot (0.5-1 µg/mL)

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.