

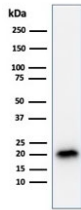
## Melan-A Antibody / Melanocyte Lineage Marker [clone A103] (V2121)

Catalog No.	Formulation	Size
V2121-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2121-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2121SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2121IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

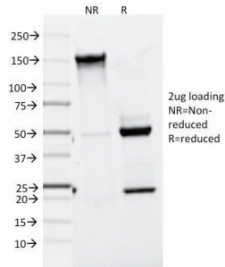
 Citations (10)

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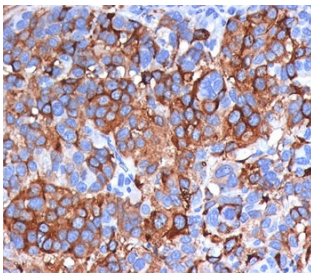
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	A103
<b>Purity</b>	Protein G affinity chromatography
<b>Buffer</b>	1X PBS, pH 7.4
<b>Gene ID</b>	2315
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This Melan-A Antibody / Melanocyte Lineage Marker clone A103 is available for research use only, not for diagnostic or therapeutic testing.



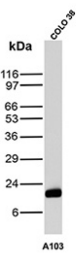
Melan-A Antibody COLO-38 Cell Line WB. Western blot analysis of human COLO-38 cell lysate using clone A103. A strong band is detected near approximately 18-20 kDa, consistent with the expected molecular weight range of Melan-A / MLANA/MART-1, a melanocyte lineage-associated protein involved in melanosome biology and melanoma differentiation pathways. A possible closely migrating doublet may reflect alternatively processed or post-translationally modified Melan-A-associated protein species commonly observed in melanocytic tumor cell lines.



SDS-PAGE Analysis of Purified, BSA-Free Melan-A Antibody (clone A103). Confirmation of Integrity and Purity of the Antibody.



Melan-A Antibody Clone A103 Melanoma IHC. Immunohistochemistry analysis of FFPE human melanoma tissue stained with clone A103. Strong cytoplasmic and membranous HRP-DAB brown staining is observed throughout malignant melanocytic tumor cells, consistent with the expected expression pattern of Melan-A / MLANA/MART-1 in melanoma-associated differentiation and melanosome-related cellular pathways.



Western blot testing of human COLO-38 cell lysate with recombinant Melan-A antibody (clone A103). Expected molecular weight ~20 kDa with possible doublet.

## Description

Melan-A (MLANA), also known as MART-1, is a melanocyte lineage-associated protein involved in melanosome biogenesis, melanocytic differentiation, and pigmentation-associated cellular pathways. Melan-A Antibody / Melanocyte Lineage Marker clone A103 is suitable for investigations involving melanoma biology, melanocytic differentiation, pigment cell signaling pathways, and dermatopathology-associated tumor research. Melan-A is predominantly expressed within normal melanocytes and melanocytic tumors, where it contributes to melanosome structure and melanocyte-associated differentiation programs.

Melan-A antibody, also referred to as MLANA antibody, MART-1 antibody, Melanocyte differentiation antigen antibody, and Clone A103 Melan-A antibody in the literature, recognizes a melanocyte-associated protein widely used as a lineage marker in melanoma pathology and melanocytic tumor research. Expression of Melan-A is strongly associated with melanocytic cells and melanoma-derived tumors, making it an important biomarker for studies involving melanocyte differentiation and pigment cell-associated neoplasms. The protein is primarily localized within melanosome-associated intracellular compartments, consistent with its role in melanin-producing cell biology.

Melanocytic lineage markers such as Melan-A are central components of dermatopathology and melanoma-associated tumor classification studies. Melan-A expression has been widely investigated in cutaneous melanoma, metastatic

melanoma, melanocytic nevi, and pigment cell differentiation-associated signaling pathways. Because melanocyte lineage-associated proteins contribute to melanosome biology and pigmentation pathways, Melan-A remains relevant for investigations involving melanocyte development, melanoma progression, and melanocytic tumor biology.

Clone A103 is a highly cited mouse monoclonal antibody with extensive use in peer-reviewed melanoma and dermatopathology research literature. This clone has been widely utilized in studies involving melanocytic tumor identification, melanoma-associated lineage analysis, and melanocyte differentiation pathways. The extensive publication history associated with clone A103 supports its continued relevance for melanoma pathology, pigment cell biology, and melanocyte lineage-associated investigations.

Immunohistochemistry and western blot analyses support detection of endogenous Melan-A expression in melanocytic tissue and melanoma-derived samples, consistent with the expected localization pattern of this melanocyte lineage-associated protein. HuProt(TM) protein microarray specificity validation further supports selective recognition of Melan-A among thousands of human proteins. The combined validation profile supports use of clone A103 for investigations involving melanoma biology, melanocyte differentiation, pigment-associated signaling pathways, and dermatopathology-associated tumor research.

An antibody targeting Melan-A can therefore support studies involving melanoma pathology, melanocyte lineage identification, pigment cell differentiation pathways, melanosome-associated biology, and melanocytic tumor-associated signaling mechanisms.

Explore our [MART-1 / Melan-A Antibody page](#) to discover additional antibodies for melanoma biology, melanocyte lineage identification, pigment cell differentiation, and dermatopathology research applications.

## Application Notes

Due to differences in protocols and secondary antibody used, the Melan-A Antibody / Melanocyte Lineage Marker clone A103 may require titration for optimal performance.

1. FFPE staining is enhanced by boiling sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Recombinant human protein was used as the immunogen for the Melan-A antibody.

## Storage

Store the Melan-A antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

## Alternate Names

Melan-A antibody, MLANA antibody, MART-1 antibody, Melanocyte differentiation antigen antibody, Clone A103 Melan-A antibody

## References (1)

