

# Product Datasheet

## Melan-A/MART-1 Antibody (M2-7C10) NBP2-15197-0.1mg

Unit Size: 0.1 mg

Store at 4C.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Publications: 9**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-15197](http://www.novusbio.com/NBP2-15197)

Updated 10/23/2024 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-15197](http://www.novusbio.com/reviews/destination/NBP2-15197)



**NBP2-15197-0.1mg**

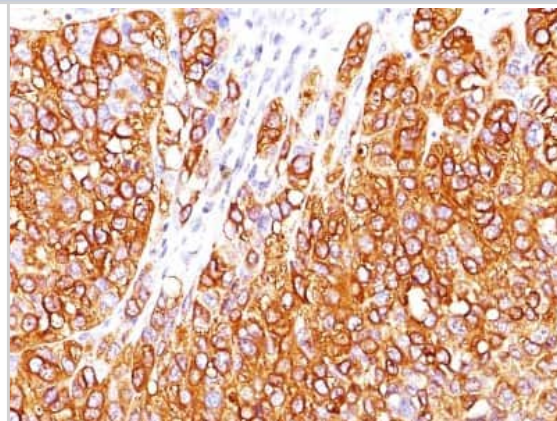
Melan-A/MART-1 Antibody (M2-7C10)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	M2-7C10
Preservative	0.05% Sodium Azide
Isotype	IgG2b Lambda
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33148)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	2315
Gene Symbol	MLANA
Species	Human, Equine, Rat (Negative)
Reactivity Notes	Does not react with Rat.
Marker	Melanoma Marker
Specificity/Sensitivity	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 monoclonal antibody 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.
Immunogen	Recombinant Melan-A/MART-1 protein (Uniprot: Q16655)
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen 0.5-1ug/ml
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.



## Images

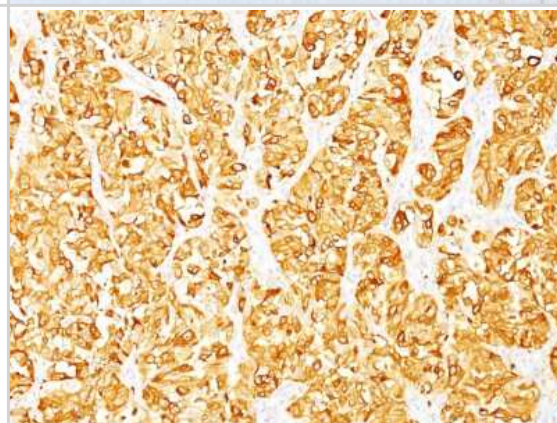
Immunohistochemistry-Paraffin: Melan-A/MART-1 Antibody (M2-7C10) [NBP2-15197] - Formalin-fixed, paraffin-embedded human Melanoma stained with Melan-A/MART-1 Antibody (M2-7C10).



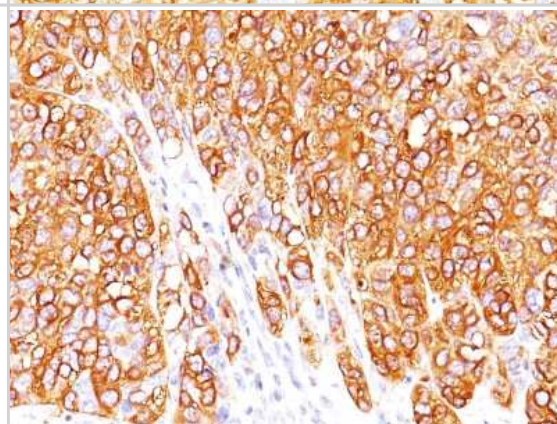
Immunohistochemistry-Paraffin: Melan-A/MART-1 Antibody (M2-7C10) [NBP2-15197] - Formalin-fixed, paraffin-embedded human skin stained with MART-1 Monoclonal Antibody (M2-7C10).



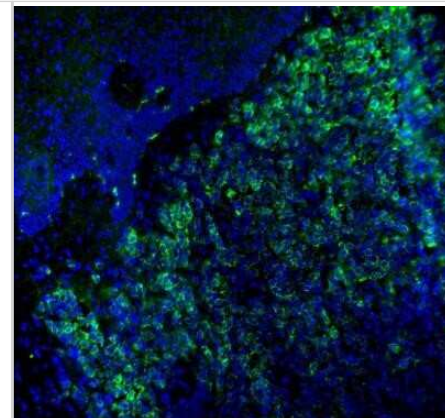
Immunohistochemistry-Paraffin: Melan-A/MART-1 Antibody (M2-7C10) [NBP2-15197] - Formalin-paraffin human melanoma stained with MART-1 Ab (M2-7C10). Note cytoplasmic staining of cells.



Immunohistochemistry-Paraffin: Melan-A/MART-1 Antibody (M2-7C10) [NBP2-15197] - Formalin-paraffin human melanoma stained with MART-1 Ab (M2-7C10). Note cytoplasmic staining of cells.



Immunohistochemistry-Frozen: Melan-A/MART-1 Antibody (M2-7C10) [NBP2-15197] - Analysis using the Alexa-Fluor(R)-488 conjugate for this antibody. Melan-A (green) was detected in human skin (melanoma) using Melan-A-AlexaFluor488 antibody (1:40; 1 hour) in PBS. Nuclei were stained with DAPI (blue). Tissue was fixed in acetone. Image from a verified customer review.



## Publications

Loreth D, Schuette M, Zinke J et al. CD74 and CD44 Expression on CTCs in Cancer Patients with Brain Metastasis International Journal of Molecular Sciences 2021-06-29 [PMID: 34209696]

Puri N, Eller M S et al. Telomere-based DNA damage responses: a new approach to melanoma. FASEB J 2004-01-09 [PMID: 15333580] (WB, Mouse)

Yang S, Wei J, Cui YH et al. m6A mRNA demethylase FTO regulates melanoma tumorigenicity and response to anti-PD-1 blockade Nat Commun. 2019-06-25 [PMID: 31239444] (IF/IHC, Human)

Prakash, R;Izraely, S;Thareja, NS;Lee, RH;Rappaport, M;Kawaguchi, R;Sagi-Assif, O;Ben-Menachem, S;Meshel, T;Machnicki, M;Ohe, S;Hoon, DS;Coppola, G;Witz, IP;Carmichael, ST; Regeneration Enhances Metastasis: A Novel Role for Neurovascular Signaling in Promoting Melanoma Brain Metastasis Front Neurosci 2019-04-09 [PMID: 31024232] (IF/IHC, Mouse)

Collins GR, Essary L, Strauss J et al. Incidentally discovered distant cutaneous metastasis of sacral chordoma: a case with variation in S100 protein expression (compared to the primary tumor) and review of the literature. J Cutan Pathol. 2012-06-01 [PMID: 22524546]

Mihic-Probst D, Ikenberg K, Tinguely M et al. Tumor cell plasticity and angiogenesis in human melanomas. PLoS One. 2012-01-01 [PMID: 22442699]

Kawakami Y, Battles JK, Kobayashi T et al. Production of recombinant MART-1 proteins and specific antiMART-1 polyclonal and monoclonal antibodies: use in the characterization of the human melanoma antigen MART-1. J Immunol Methods. 1997-03-10 [PMID: 9075767]

Hoashi T, Watabe H, Muller J et al. MART-1 is required for the function of the melanosomal matrix protein PMEL17/GP100 and the maturation of melanosomes. J Biol Chem. 2005-04-08 [PMID: 15695812]

Marincola FM, Hijazi YM, Fetsch P et al. Analysis of expression of the melanoma-associated antigens MART-1 and gp100 in metastatic melanoma cell lines and in in situ lesions. J Immunother Emphasis Tumor Immunol. 1996-05-01 [PMID: 8811494]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-15197-0.1mg**

---

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-23223	Recombinant Human Melan-A/MART-1 His Protein
285-IF-100	IFN-gamma [Unconjugated]

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-15197](http://www.novusbio.com/reviews/submit/NBP2-15197)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

