

# Product Datasheet

## **Melanoma Marker (MART-1 + Tyrosinase + gp100) Antibody (M2-7C10 + M2-9E3 + T311 + HMB45) NBP2-34337-0.1mg**

Unit Size: 0.1 mg

Store at 4C.

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Updated 7/16/2024 v.20.1

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**NBP2-34337-0.1mg**

Melanoma Marker (MART-1 + Tyrosinase + gp100) Antibody (M2-7C10 + M2-9E3 + T311 + HMB45)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	M2-7C10 + M2-9E3 + T311 + HMB45
Preservative	0.05% Sodium Azide
Isotype	IgG2b Lambda/IgG2a Kappa/IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

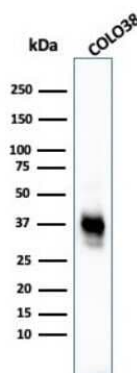
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34681)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	2315
Gene Symbol	MLANA
Species	Human
Marker	Melanoma Marker
Specificity/Sensitivity	This antibody cocktail recognizes three melanoma-specific proteins, which include MART-1, Tyrosinase and gp100. MART-1 is a newly identified melanocyte differentiation antigen recognized by autologous cytotoxic T lymphocytes. Tyrosinase is one of the targets for cytotoxic T-cell recognition in melanoma patients. Function of gp100 is not known but it is reported to be a useful marker for melanocytes and melanomas. This cocktail of three markers is designed for extremely sensitive labeling of formalin-fixed, paraffin-embedded melanomas and other tumors showing melanocytic differentiation.
Immunogen	Recombinant Melanoma Marker (MART-1 + Tyrosinase + gp100) protein (M2-7C10; M2-9E3); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45)

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2-4 ug/ml, 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.

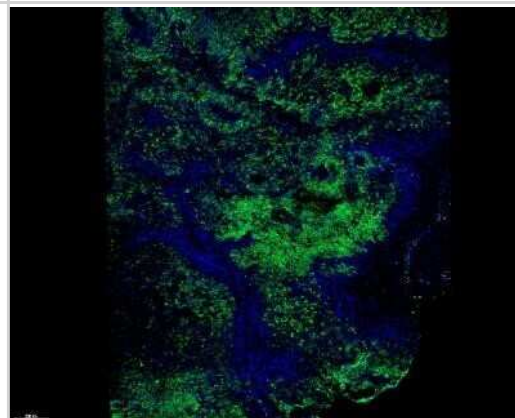


## Images

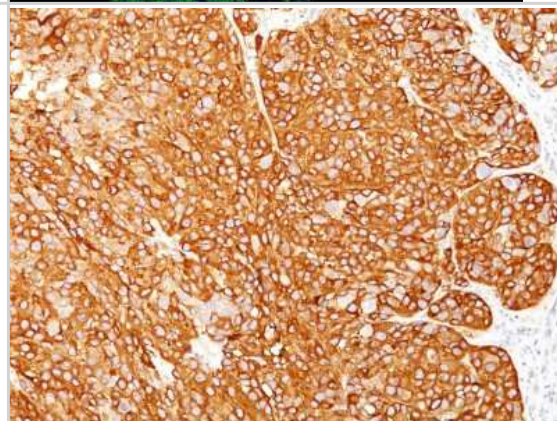
Western Blot: Melanoma Marker (MART-1 + Tyrosinase + gp100) Antibody (M2-7C10 + M2-9E3 + T311 + HMB45) [NBP2-34337] - Western Blot Analysis of COLO38 cell lysate using Melanoma Marker (MART-1 + Tyrosinase + gp100) MAb (M2-7C10 + M2-9E3 + T311 + HMB45).



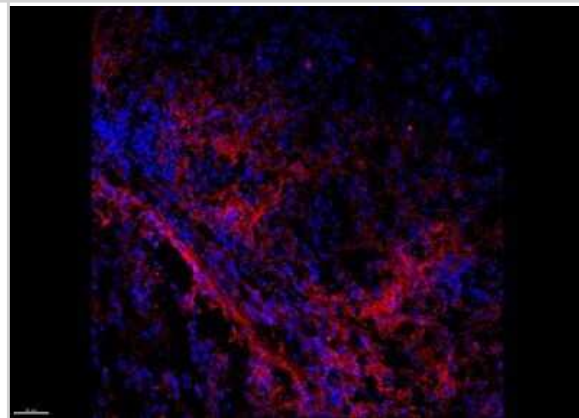
Immunohistochemistry: Melanoma Marker (MART-1 + Tyrosinase + gp100) Antibody (M2-7C10 + M2-9E3 + T311 + HMB45) [NBP2-34337] - Scan of human melanoma sample. Stained for Mart-1+Tyrosinase +gp100 (green) counter stained with DAPI (blue). Image from verified customer review. Image using the Janelia Fluor 549 format of this antibody.



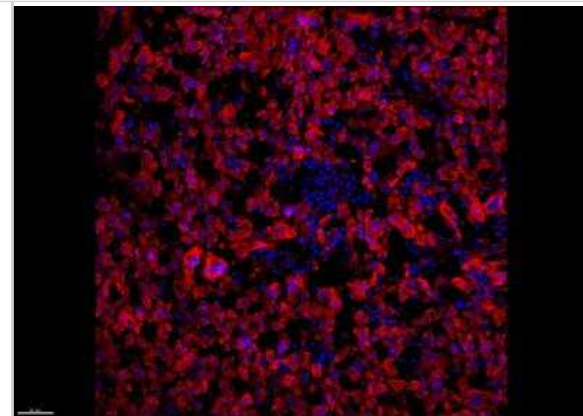
Immunohistochemistry-Paraffin: Melanoma Marker (MART-1 + Tyrosinase + gp100) Antibody (M2-7C10 + M2-9E3 + T311 + HMB45) [NBP2-34337] - Formalin-fixed, paraffin-embedded human melanoma stained with Melanoma Marker MAb (M2-7C10 + M2-9E3 + T311 + HMB45).



Immunohistochemistry-Frozen: Melanoma Marker (MART-1 + Tyrosinase + gp100) Antibody (M2-7C10 + M2-9E3 + T311 + HMB45) [NBP2-34337] - Frozen human melanoma stained for melanoma cancer cells (red) and counter-stained with DAPI (blue). This image was submitted via customer review. Image from the Alexa Fluor 700 version of this antibody.



Immunohistochemistry-Frozen: Melanoma Marker (MART-1 + Tyrosinase + gp100) Antibody (M2-7C10 + M2-9E3 + T311 + HMB45) [NBP2-34337] - Melanoma cells (in green) stained for Mar-1 + Tyrosinase + p100. Counter stained with DAPI ( blue). Image from a customer review using Alexa Fluor 647 version of this antibody.



## Publications

Valentin Voillet, Trisha R Berger, Kelly M McKenna, Kelly G Paulson, Wei Hong Tan, Kimberly S Smythe, Daniel S Hunter, William J Valente, Stephanie Weaver, Jean S Campbell, Teresa S Kim, David R Byrd, Jason H Bielas, Robert H Pierce, Aude G Chapuis, Raphaël Gottardo, Anthony Rongvaux An In Vivo Model of Human Macrophages in Metastatic Melanoma. Journal of immunology (Baltimore, Md. : 1950) 2022-08-01 [PMID: 35817516]

Martinek J, Lin J, Kim KI Et al. Transcriptional profiling of macrophages in situ in metastatic melanoma reveals localization-dependent phenotypes and function Cell Rep Med 2022-05-18 [PMID: 35584631]

### Details:

Citation using the Azide and BSA Free version of this antibody.



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### **Products Related to NBP2-34337-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
285-IF-100	IFN-gamma [Unconjugated]
202-IL-010	IL-2 [Unconjugated]

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### **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.

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