


# Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone M2-7C10, M2-9E3, T311, & HMB45 (Concentrate)

<b>Availability/Contents:</b>	<u>Item #</u> RA0411-C.5	<u>Volume</u> 0.5 ml
<b>Description:</b>		
Species:	Mouse	
Immunogen:	Recombinant hMART-1 protein (M2-7C10; M2-9E3); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).	
Clone:	M2-7C10, M2-9E3, T311, & HMB45	
Isotype:	IgG2b (M2-7C10 & M2-9E3); IgG2a (T311); IgG1 (HMB45).	
Entrez Gene ID:	2315-MART-1; 7299-Tyrosinase; 6490-gp100 (Human)	
Synonyms:	Melanoma antigen recognized by T-cells 1 (MART-1), MLAN-A; TYR; PMEL17	
Mol. Weight of Antigen:	20-22kDa (doublet) (MART); 70-80kDa (Tyrosinase); 90-100kDa (gp100)	
Format:	200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.	
Specificity:	This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.	
Background:	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. The 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.	
Species Reactivity:	Human. Others not tested.	
Positive Control:	SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.	
Cellular Localization:	Cytoplasmic	
Titer/ Working Dilution:	Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml	
Microbiological State:	This product is not sterile.	

Storage: 2° C  8° C

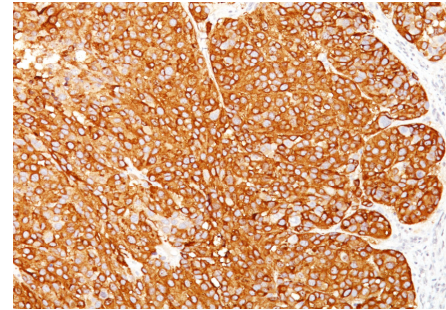


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**Uses/Limitations:** Not to be taken internally.  
 For Research Use Only.  
 This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.  
 Do not use if reagent becomes cloudy.  
 Do not use past expiration date.  
 Non-Sterile.



**Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)**

Formalin-fixed, paraffin-embedded melanoma stained with Melanoma Marker; Clone M2-7C10, M2-9E3, T311, & HMB45.

**Procedure:**

1. **Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
3. **Visualization:** For maximum staining intensity we recommend the “UltraTek HRP Anti-Polyvalent Lab Pack” (ScyTek catalog# UHP125, see IFU for instructions) combined with the “DAB Chromogen/Substrate Bulk Pack (High Contrast)” (ScyTek catalog# ACV500, see IFU for instructions).

**Precautions:**


Contains Sodium Azide as a preservative (0.09% w/v).  
 Do not pipette by mouth.  
 Avoid contact of reagents and specimens with skin and mucous membranes.  
 Avoid microbial contamination of reagents or increased nonspecific staining may occur.  
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.


**References:**

1. Chen Y-T, *et. al.* Proc Natl Acad Sci, USA, 1996, 93:5915-19.
2. Chen Y-T, *et. al.* Proc. Natl. Acad. Sci. USA, 1995, 92:8125-8129.
3. Gown AM, *et. al.* American Journal of Pathology, 1986, 123(2):195-203.


**Warranty:**

No products or “Instructions For Use (IFU)” are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

Storage: 2° C  8° C

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