

**AM50296PU-T****Monoclonal Antibody to Melanoma Marker (MART-1 + Tyrosinase + gp100) - Purified**

<b>Alternate names:</b>	MLAN-A, Melanoma antigen recognized by T-cells 1 (MART-1), PMEL17, TYR
<b>Quantity:</b>	20 µg
<b>Concentration:</b>	0.2 mg/ml
<b>Uniprot ID:</b>	<a href="#">Q16655</a>
<b>NCBI:</b>	<a href="#">NP_005502.1</a>
<b>GeneID:</b>	<a href="#">2315</a>
<b>Host / Isotype:</b>	Mouse / IgG1/IgG2a/IgG2b
<b>Clone:</b>	M2-7C10 + M2-9E3 + T311 + HMB45
<b>Immunogen:</b>	Recombinant Human MART-1 protein (M2-7C10; M2-9E3); Recombinant Tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45). <b>Isotypes:</b> Mouse/IgG2b (M2-7C10 & M2-9E3) + Mouse/IgG2a (T311) + Mouse/IgG1 (HMB45)
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction from Bioreactor Concentrate <b>Purification:</b> Protein A/G Chromatography <b>Buffer System:</b> 10mM PBS <b>Preservatives:</b> 0.05% Sodium Azide <b>Stabilizers:</b> 0.05% BSA
<b>Applications:</b>	<b>Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections:</b> 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. <b>Positive Control:</b> SK-MEL-13 and SK-MEL-19 Melanoma cell lines; Melanomas. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	20-22kDa (doublet) (MART); 70-80kDa (Tyrosinase); 90-100kDa (gp100)
<b>Specificity:</b>	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. <b>Cellular Localization:</b> Cytoplasmic. <b>Species:</b> Human. Other species not tested.

**Storage:**

Store undiluted at 2-8°C.  
Shelf life: one year from despatch.

**General Readings:**

1. Chen YT, Stockert E, Jungbluth A, Tsang S, Coplan KA, Scanlan MJ, et al. Serological analysis of Melan-A(MART-1), a melanocyte-specific protein homogeneously expressed in human melanomas. *Proc Natl Acad Sci U S A.* 1996 Jun 11;93(12):5915-9. PubMed PMID: 8650193.
2. Chen YT, Stockert E, Tsang S, Coplan KA, Old LJ. Immunophenotyping of melanomas for tyrosinase: implications for vaccine development. *Proc Natl Acad Sci U S A.* 1995 Aug 29;92(18):8125-9. PubMed PMID: 7667256.
3. Gown AM, Vogel AM, Hoak D, Gough F, McNutt MA. Monoclonal antibodies specific for melanocytic tumors distinguish subpopulations of melanocytes. *Am J Pathol.* 1986 May;123(2):195-203. PubMed PMID: 3518473.

**Pictures:**

Formalin-Fixed, Paraffin-Embedded human melanoma stained with Melanoma Marker Antibody Cat.-No AM50296PU (Clone M2-7C10+M2-9E3+T311+HMB45). Note cytoplasmic staining of cells.

