

Monoclonal Antibody to Melanoma Marker (MART-1 + gp100) - Purified

Alternate names:	MLAN-A, Melanoma antigen recognized by T-cells 1 (MART-1), PMEL17
Catalog No.:	AM50295PU-S
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Uniprot ID:	Q16655
NCBI:	NP_005502.1
GeneID:	2315
Host / Isotype:	Mouse / IgG1/IgG2b
Clone:	DT101+ BC199 + HMB45
Immunogen:	Recombinant Human MART-1 protein (Mouse IgG2b, DT101& BC199) and Extract of pigmented melanoma metastases from lymph nodes (Mouse IgG1, HMB45).
Format:	State: Liquid purified IgG fraction from Bioreactor Concentrate Purification: Protein A/G Chromatography Buffer System: 10mM PBS Preservatives: 0.05% Sodium Azide Stabilizers: 0.05% BSA
Applications:	Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 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. Positive Control: 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.
Molecular Weight:	20-22kDa (doublet) (MART-1); 90-100kDa (gp100)
Specificity:	This antibody cocktail recognizes two melanoma-specific proteins, which include MART-1 and gp100. MART-1 is a newly identified melanocyte differentiation antigen recognized by autologous cytotoxic T lymphocytes. Function of gp100 is not known but it is reported to be a useful marker for melanocytes and melanomas. A cocktail of these two markers is sensitive for labeling formalin-fixed, paraffin-embedded melanomas and other tumors showing melanocytic differentiation. Cellular Localization: Cytoplasmic. Species: 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 AM50295PU (Clone DT101+ BC199 + HMB45). Note cytoplasmic staining of cells.

