Anti-Melanoma gp100 Antibody [PMEL/2037] (A249973)

Specifications:

Name:	Anti-Melanoma gp100 Antibody [PMEL/2037]
Description:	Mouse monoclonal [PMEL/2037] antibody to Melanoma gp100.
Specificity:	The gp100 molecule is a 100kDa glycosylated protein that is cleaved into a small (26kDa) carboxy-terminal fragment and a larger amino- terminal section (60-64 kDa), which is subsequently cleaved to generate 26kDa and 34-38kDa fragments. Cytotoxic T lymphocytes (CTL s) recognize melanoma-associated antigens, which belong to three main groups. These groups include tumor-associated testis-specific antigens, melanocyte differentiation antigens and mutated or aberrantly expressed antigens, which are routinely used as markers to identify melanomas based on their binding to specific monoclonal antibodies. gp100, also designated ME20-M, ME20-S and PMEL 17, is classified as a melanocyte differentiation antigen and is expressed at low levels in normal cell lines and tissues, but is upregulated in melanocytes. gp100 is a highly glycosylated protein. It is also the product of proteolytic cleavage, which results in a secreted protein.
Applications:	ELISA, WB, IHC-P
Recommended Dilutions:	WB: 2-4 µg/ml, IHC-P: 1-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, within amino acids 376-502, of human SILV protein. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	PMEL/2037
Isotype:	IgG1
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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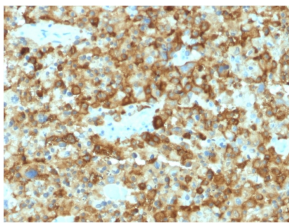
Specifications continued:

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General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-Melanoma gp100 Antibody [PMEL/2037] - BSA and Azide free (A253153).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

Images:

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human melanoma using Anti-Melanoma gp100 Antibody [PMEL/2037].
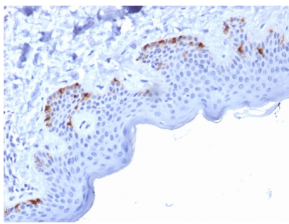

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human skin using Anti-Melanoma gp100 Antibody [PMEL/2037].
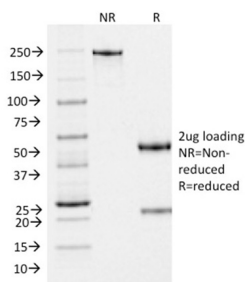
SDS-PAGE analysis of Anti-Melanoma gp100 Antibody [PMEL/2037] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

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Images continued:
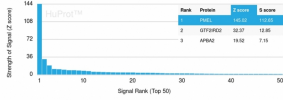
Analysis of protein array containing more than 19,000 full-length human proteins using Anti-Melanoma gp100 Antibody [PMEL/2037]. Z-Score and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target; a MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.