gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker) Antibody

Mouse Monoclonal Antibody [Clone PMEL/2037]

Catalog No	Format	Size
6490-MSM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6490-MSM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6490-MSM7-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

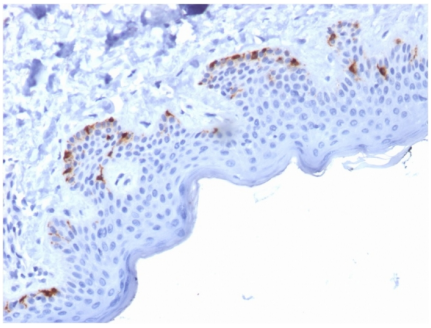
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

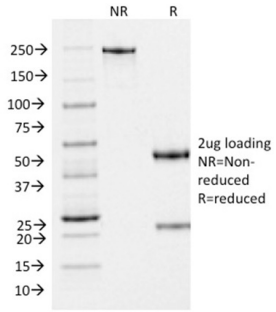
Clone	PMEL/2037
Gene Name	PMEL
Immunogen	A recombinant fragment (around aa 376-502) of human SILV protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	26-100kDa
Cellular Localization	Endoplasmic reticulum membrane, Endosome, Golgi apparatus, Melanosome, Multivesicular body, Secreted
Species Reactivity	Human
Positive Control	CACO-38 or SK-MEL-28 cells. Melanoma.

**Optimal dilution for a specific application should be determined.*

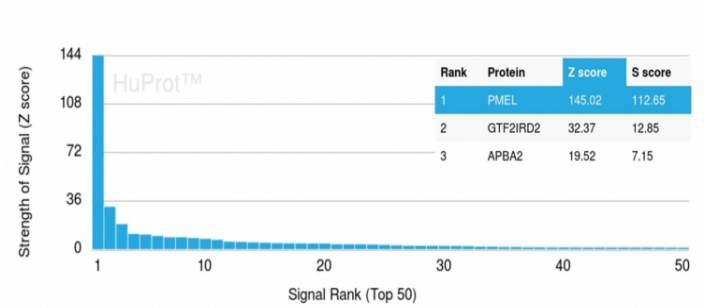
Product Images for gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker) Antibody



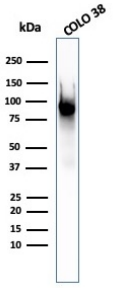
Formalin-fixed, paraffin-embedded human Skin stained with gp100 Mouse Monoclonal Antibody (PMEL/2037).



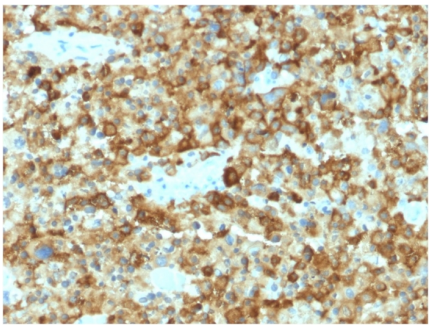
SDS-PAGE Analysis Purified gp100 Mouse Monoclonal Antibody (PMEL/2037). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing PMEL/gp100 Mouse Monoclonal Antibody (PMEL/2037). Z- 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 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.



Western Blot Analysis of COLO-38 cell lysate using gp100 Mouse Monoclonal Antibody (PMEL/2037).



Formalin-fixed, paraffin-embedded human Melanoma stained with gp100 Mouse Monoclonal Antibody (PMEL/2037).

Specificity & Comments

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.

Supplied As

200ug/ml of Ab Purified from bioreactor concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.