Datasheet for ABIN6940589

anti-Melanoma gp100 antibody (AA 376-502)

5 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Melanoma gp100 (PMEL)
Binding Specificity:	AA 376-502
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Melanoma gp100 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Staining Methods (StM), Coating (Coat)

Product Details

Immunogen:	A recombinant fragment (around aa 376-502) of human SILV protein (exact sequence is proprietary)
Clone:	PMEL-2037
Isotype:	IgG1 kappa

Target Details

Target:	Melanoma gp100 (PMEL)
Alternative Name:	SILV (PMEL Products)
Background:	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

Target Details

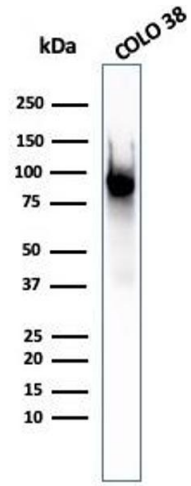
	routinely used as markers to identify melanomas based on their binding to specific monoclonal antibodies. gp100, also designated ME20-M, ME20-S and PMEL 17, is classified as a melanocyte differentiation antigen and is expressed at low levels in normal cell lines and tissues, but is upregulated in melanocytes. gp100 is a highly glycosylated protein. It is also the product of proteolytic cleavage, which results in a secreted protein.
Molecular Weight:	90-100kDa
Gene ID:	6490
UniProt:	P40967

Application Details

Application Notes:	Positive Control: SK-MEL-28 cells. Melanoma. Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), ,Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

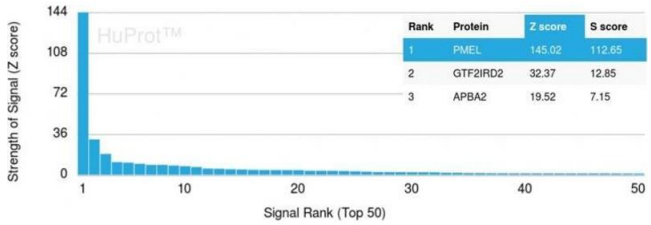
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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.
Expiry Date:	24 months



Western Blotting

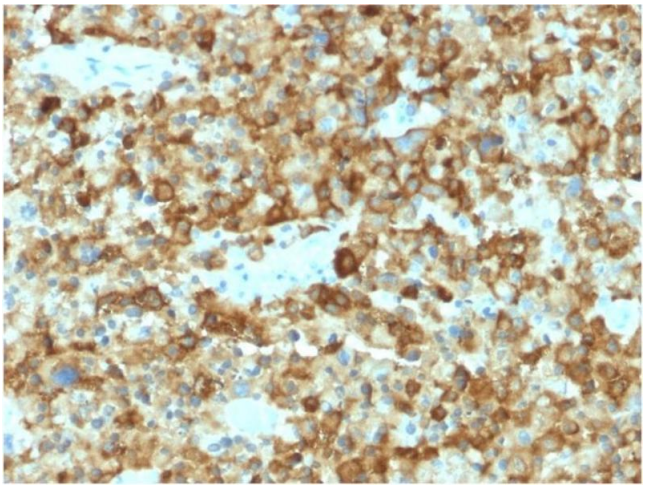
Image 1. Western Blot Analysis of COLO-38 cell lysate using gp100 Mouse Monoclonal Antibody (PMEL/2037).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using 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 (SDs) 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 SDs) 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.

Images



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Melanoma stained with gp100 Mouse Monoclonal Antibody (PMEL/2037).

Please check the product details page for more images. Overall 5 images are available for ABIN6940589.