# Mouse gp100/Melanosome/PMEL17/SILV Monoclonal Antibody | anti-gp100 antibody

gp100/Melanosome/PMEL17/SILV (Melanoma Marker)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA214682** | **Mouse** | **Human. Others not tested.** | **Immunohistochemistry, ELISA** |

## PRODUCT SYNONYMS

gp100/Melanosome/PMEL17/SILV; Monoclonal Antibody; gp100/Melanosome/PMEL17/SILV (Melanoma Marker); 95kDa melanocyte-specific secreted glycoprotein; M-beta; Melanocyte lineage specific antigen GP100; Melanocyte protein Pmel 17; Melanoma associated ME20 antigen; Melanosomal matrix protein17; Premelanosome protein (PMEL17); Secreted melanoma-associated ME20 antigen; SILV; Silver homolog; anti-gp100 antibody

## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Mouse |
| **Reactivity** | Human. Others not tested. |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1, kappa |
| **Clone Number** | PMEL/2037 |
| **Specificity** | 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. |
| **Form/Format** | 200ug/ml of Ab purified from bioreactor concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Sequence Length** | 575 |
| **Applicable Applications for anti-gp100 antibody** | IHC (Immunohistochemistry), ELISA |
| **Immunogen** | Recombinant human SILV protein fragment (around aa 376-502) |
| **Cellular Localization** | Cytoplasmic |
| **Hu-chromosome Location** | 12q13.2 |
| **Positive Control** | SK-MEL-28 cells or Melanoma |

## IMAGES

**Application Data**
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 (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.

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

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

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

## ADDITIONAL INFORMATION

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|---|---|
| **References** | Adema, G.J., et al. 1994. J. Biol. Chem. 269: 20126-20133. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 318037593 |
| **NCBI GeneID** | 6490 |
| **NCBI Accession #** | NP_001186982.1 |
| **NCBI GenBank Nucleotide #** | NM_001200053.1 |
| **UniProt Accession #** | P40967; Q12763; Q14448; Q14817; Q16565; B3KS57; B7Z6D7 |
| **Molecular Weight** | 90-100kDa |
| **NCBI Official Full Name** | melanocyte protein PMEL isoform 2 |
| **NCBI Official Synonym Full Names** | premelanosome protein |
| **NCBI Official Symbol** | PMEL |
| **NCBI Official Synonym Symbols** | P1; SI; SIL; ME20; P100; SILV; ME20M; gp100; ME20-M; PMEL17; D12S53E |
| **NCBI Protein Information** | melanocyte protein PMEL |
| **UniProt Protein Name** | Melanocyte protein PMEL |
| **UniProt Gene Name** | **PMEL** |
| **UniProt Synonym Gene Names** | D12S53E; PMEL17; SILV; ME20M; ME20-S; ME20S |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/gp100-melanosome-pmel17-silv-antibody-clone-pmel-2037-immunohistochemistry-elisa/214682