

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

Rabbit Monoclonal Antibody [Clone PMEL/7554R]

Catalog No	Format	Size
6490-RBM14-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6490-RBM14-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6490-RBM14-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

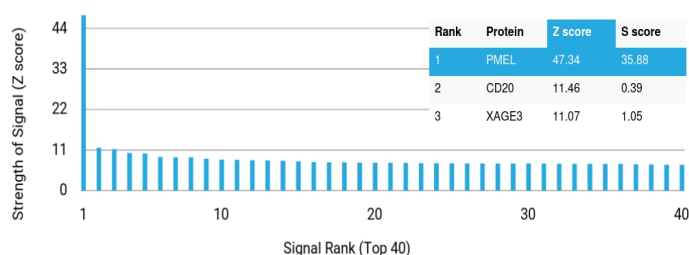
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Product Details

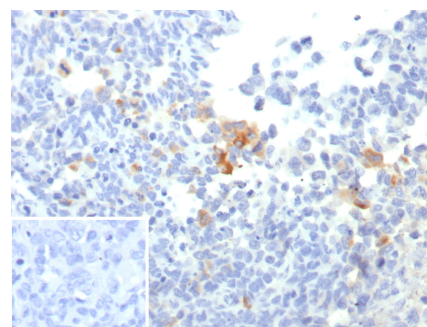
Clone	PMEL/7554R
Immunogen	Recombinant fragment (around aa 561-661) of human SILV protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	26-100kDa
Cellular Localization	Endoplasmic reticulum membrane, Endosome, Golgi apparatus, Melanosome, Multivesicular body, Secreted
Species Reactivity	Human
Positive Control	Skin: A moderate to strong cytoplasmic PMEL immunostaining should be seen in all melanocytes of the skin.

*Optimal dilution for a specific application should be determined.

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



Analysis of HuProt™ Protein Array (21,000+ full-length human proteins) with gp100 / PMEL17 Recombinant Rabbit Monoclonal Antibody (PMEL17/7554R). Z-score: Signal strength (in SD above the mean) of antibody binding to each protein. S-score: Difference in Z-scores between the top target and the next best hit, indicating relative specificity. An antibody is considered specific if S ? 2.5. Example: Binding to protein X (Z = 43) vs protein Y (Z = 14) ? S = 29.



Formalin-fixed, paraffin-embedded human melanoma stained with gp100 / Melanosome Mouse Monoclonal Antibody (PMEL/7554R). Inset: PBS instead of primary antibody; secondary only negative control.

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. By immunohistochemistry, it specifically recognizes a protein in melanocytes and melanomas. This MAb reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. Metastatic amelanotic melanoma can often be confused with a variety of poorly differentiated carcinomas, large cell lymphomas, and sarcomas using H & E stains alone. It is also difficult to differentiate melanoma from spindle cell carcinomas and various types of mesenchymal neoplasms. This MAb stains fetal and neonatal melanocytes, junctional and blue nevus cells, and malignant melanoma. This MAb also stains Angiomyolipoma (PEComa).

Limitations and Warranty

Supplied As

200ug/ml of Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% 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

Immunology, Infectious Disease, Oncology
