

Product Datasheet

PMEL17/SILV Antibody (HMB45) - Azide and BSA Free NBP2-34638-0.1 mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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NBP2-34638-0.1 mg

PMEL17/SILV Antibody (HMB45) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	HMB45
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	95 kDa

Product Description	
Description	<p>1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44520).</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>
Host	Mouse
Gene ID	6490
Gene Symbol	PMEL
Species	Human, Canine (Negative), Rat (Negative)
Reactivity Notes	Does not react with Canine or Rat.
Marker	Melanoma Marker
Specificity/Sensitivity	<p>The gp100 molecule is a 100kDa glycosylated protein that is cleaved into a small (26kDa) carboxy-terminal fragment and a larger amino-terminal section (6038kDa fragments). By immunohistochemistry, it specifically recognizes a protein in melanocytes and melanomas. This monoclonal antibody 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 monoclonal antibody stains fetal and neonatal melanocytes, junctional and blue nevus cells, and malignant melanoma. This monoclonal antibody also stains Angiomyolipoma (PEComa).</p>
Immunogen	Extract of pigmented melanoma metastases from lymph nodes

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, CyTOF-ready, Multiplex Immunoassay

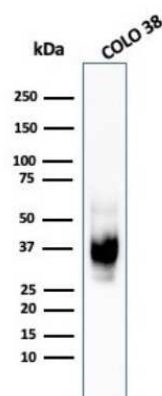


Recommended Dilutions	Western Blot 0.5-1.0ug/ml, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5-1ug/ml, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, Flow (Intracellular), CyTOF-ready, Multiplex Immunoassay
Application Notes	Use in Multiplex Immunoassay reported in scientific literature (PMID: 31942075). Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. Use in Western blot reported in scientific literature (PMID: 30561643).

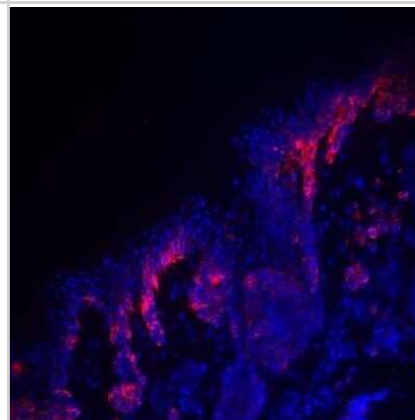


Images

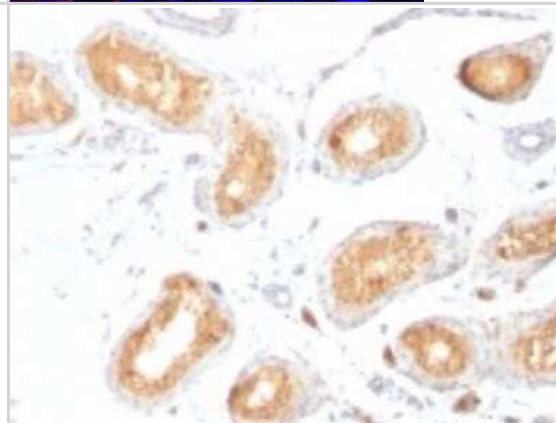
Western Blot: PMEL17/SILV Antibody (HMB45) - Azide and BSA Free [NBP2-34638] - Western Blot Analysis of COLO-38 cell lysate using PMEL17/SILV antibody (HMB45).



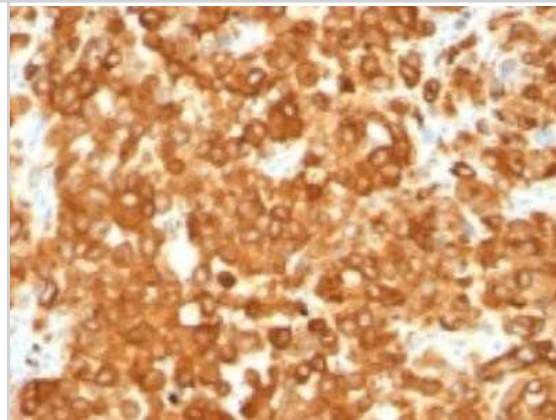
Immunohistochemistry: PMEL17/SILV Antibody (HMB45) - Azide and BSA Free [NBP2-34638] - PMEL17 (red) was detected in human skin (melanoma) using PMEL17-PE antibody (1:200) in PBS for 1 hour. Nuclei were stained with DAPI (blue). Image from a verified customer review. Image using the PE format of this antibody.



Immunohistochemistry-Paraffin: PMEL17/SILV Antibody (HMB45) - Azide and BSA Free [NBP2-34638] - Formalin-fixed, paraffin-embedded human testis stained with gp100/Melanosome Monoclonal Antibody (HMB45).



Immunohistochemistry-Paraffin: PMEL17/SILV Antibody (HMB45) - Azide and BSA Free [NBP2-34638] - Formalin-fixed, paraffin-embedded human melanoma stained with gp100/Melanosome Monoclonal Antibody (HMB45).



Publications

Elham Karimi, Miranda W. Yu, Sarah M. Maritan, Lucas J. M. Perus, Morteza Rezanejad, Mark Sorin, Matthew Dankner, Parvaneh Fallah, Samuel Doré, Dongmei Zuo, Benoit Fiset, Daan J. Kloosterman, LeeAnn Ramsay, Yuhong Wei, Stephanie Lam, Roa Alsajjan, Ian R. Watson, Gloria Roldan Urgoiti, Morag Park, Dieta Brandsma, Donna L. Senger, Jennifer A. Chan, Leila Akkari, Kevin Petrecca, Marie-Christine Guiot, Peter M. Siegel, Daniela F. Quail, Logan A. Walsh Single-cell spatial immune landscapes of primary and metastatic brain tumours Nature 2023-02-01 [PMID: 36725935]



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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