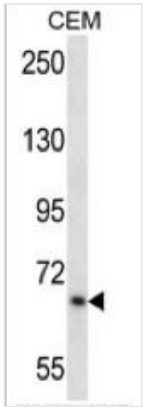
SILV Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SILV, Polyclonal Antibody
Full Product Name	SILV, ID (PMEL, D12S53E, PMEL17, SILV, Melanocyte protein PMEL, ME20-M, Melanocyte protein Pmel 17, Melanocytes lineage-specific antigen GP100, Melanoma-associated ME20 antigen, P1, P100, Premelanosome protein, Silver locus protein homolog, M-alpha, 95kD
Product Gene Name	anti-SILV antibody
Product Synonym Names	PMEL; D12S53E; PMEL17; SILV; Melanocyte protein PMEL; ME20-M; Melanocyte protein Pmel 17; Melanocytes lineage-specific antigen GP100; Melanoma-associated ME20 antigen; P1; P100; Premelanosome protein; Silver locus protein homolog; M-alpha; 95kD melanocyte-specific secreted glycoprotein; P26; Secreted melanoma-associated ME20 antigen; M-beta
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human SILV.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	70,255 Da
OMIM	155550
3D Structure	ModBase 3D Structure for P40967
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 412-440 in the central region of human SILV.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-SILV antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-SILV antibody	FLISA, Western Blot (WB)
Application Notes for anti-SILV antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SILV antibody	SILV plays a central role in the biogenesis of melanosomes. Involved in the maturation of melanosomes from stage I to II. The transition from stage I melanosomes to stage II melanosomes involves an elongation of the vesicle, and the appearance within of distinct fibrillar structures. Release of the soluble form, ME20-S, could protect tumor cells from antibody mediated immunity.

Product References and Citations for anti-SILV antibody	1. Leonhardt, R.M., et al. J. Biol. Chem. 285(21):16166-16183(2010). 2. Hoashi, T., et al. FASEB J. 24(3):916-930(2010). 3. Watt, B., et al. J. Biol. Chem. 284(51):35543-35555(2009). 4. McGlinchey, R.P., et al. Proc. Natl. Acad. Sci. U.S.A. 106(33):13731-13736(2009). 5. Kummer, M.P., et al. J. Biol. Chem. 284(4):2296-2306(2009).
Other Notes	Small volumes of anti-SILV antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SILV purchase	MBS6347712 is an antibody targeting SILV. Also known as SILV, ID (PMEL, D12S53E, PMEL17, SILV, Melanocyte protein PMEL, ME20-M, Melanocyte protein Pmel 17, Melanocytes lineage-specific antigen GP100, Melanoma-associated ME20 antigen, P1, P100, Premelanosome protein, Silver locus protein homolog, M-alpha, 95kD. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SILV antibody
Western Blot analysis in CEM cell line lysates (35ug/lane) usingMBS642750. This demonstrates that MBS642750 detected the SILV protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SILV. It may not necessarily be applicable to this product.

NCBI GI #	5902084
NCBI GeneID	6490
NCBI Accession #	NP_008859.1
UniProt Primary Accession #	P40967
UniProt Secondary Accession #	Q12763; Q14448; Q14817; Q16565; B3KS57; B7Z6D7
UniProt Related Accession #	P40967
GenBank Nucleotide #	NM_006928.4
NCBI Official Full Name	melanocyte protein PMEL isoform 3 preproprotein
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
UniProt Protein Name	Melanocyte protein PMEL
UniProt Synonym Protein Names	ME20-M; ME20M; Melanocyte protein Pmel 17; Melanocytes lineage-specific antigen GP100; Melanoma-associated ME20 antigen; P1; P100; Premelanosome protein; Silver locus protein homologCleaved into the following 2 chains:M-alpha; Alternative name(s):; 95 kDa melanocyte-specific secreted glycoprotein; P26; Secreted melanoma-associated ME20 antigen
Protein Family	Silver-binding protein
UniProt Gene Name	PMEL

UniProt Synonym Gene Names	D12S53E; PMEL17; SILV; ME20M; ME20-S; ME20S
UniProt Entry Name	PMEL_HUMAN
NCBI Protein Information	melanocyte protein PMEL; melanocyte protein mel 17; silver, mouse, homolog of; melanocyte protein Pmel 17; melanosomal matrix protein17; silver locus protein homolog; melanoma-associated ME20 antigen; melanocytes lineage-specific antigen GP100
NCBI Summary for SILV	This gene encodes a melanocyte-specific type I transmembrane glycoprotein. The encoded protein is enriched in melanosomes, which are the melanin-producing organelles in melanocytes, and plays an essential role in the structural organization of premelanosomes. This protein is involved in generating internal matrix fibers that define the transition from Stage I to Stage II melanosomes. This protein undergoes a complex pattern of prosttranslational processing and modification that is essential to the proper functioning of the protein. A secreted form of this protein that is released by proteolytic ectodomain shedding may be used as a melanoma-specific serum marker. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2011]
UniProt Comments for SILV	SILV: Plays a central role in the biogenesis of melanosomes. Involved in the maturation of melanosomes from stage I to II. The transition from stage I melanosomes to stage II melanosomes involves an elongation of the vesicle, and the appearance within of distinct fibrillar structures. Release of the soluble form, ME20-S, could protect tumor cells from antibody mediated immunity. Belongs to the PMEL/NMB family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Vesicle Chromosomal Location of Human Ortholog: 12q13-q14 Cellular Component: Golgi apparatus; endoplasmic reticulum membrane; plasma membrane; melanosome; integral to membrane; extracellular region Molecular Function: protein binding Biological Process: melanin biosynthetic process; melanosome organization and biogenesis
Research Articles on SILV	**1.** SIL-TAL1 rearrangement identifies a distinct subtype with inferior outcome which could allow for individual therapeutic stratification for T-ALL patients.
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