

Recombinant Full Length Human PMEL Protein, C-Flag-tagged

Cat. No. PMEL-835HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PMEL Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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 posttranslational 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	70.1 kDa
AA Sequence	MDLVLRCLLHLAVIGALLAVGATKVP RNQDWLGVS RQLRTKAWN RQLYPEWTEA QRLDCWRGGQVSLKV SNDGPTLIGANASF SIALNFP GSQKVLPD GQVIWVNNTIING SQVWGGQPVPYQETDDACIFPDGGPCPS GSWSQKR SFVYVWK TWGQYWQVLG GPVSGLSIGTGRAMLGHTTMEVTYVHRRGSR SYVPLAHSSSAFTIT DQVPFSVSVS

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QLRALDGGNKHFLRNQPLTFALQLHDPSGYLAEADLSYTWDFGDSSGTLISRALVVT
 HTY LEPGPVTAQVVLQAAIPLTSCGSSPVPGTDDGHRPTAEAPNTTAGQVPTTEVV
 GTTPGQAPTAEPSGTTS VQVPTTEVISTAPVQMPTAESTGMTPEKVPVSEVMGTTL
 AEMSTPEATGMTPAEVSIVVLSGTTAAQVTT TEWVETTARELPIPEPEGPDASSIMS
 TESITGSLGPLLDGTATLRLVKRQVPLDCVLYRYGSFSVTLDIV QGIESAEILQAVPS
 GEGDAFELTVSCQGGLPKEACMEISSPGCQPPAQRLCQPVLPSACQLVLHQILKG
 GSGTYCLNVSLADTNSLAVVSTQLIMPGQEAGLGQVPLIVGILLVLMMAVVLASLIYRR
 RLMKQDFSVPQL
 PHSSSHWLRLPRIFCSCPIGENSPLLSGQQVTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Secreted Protein, Transmembrane
Full Length	Full L.

GENE INFORMATION

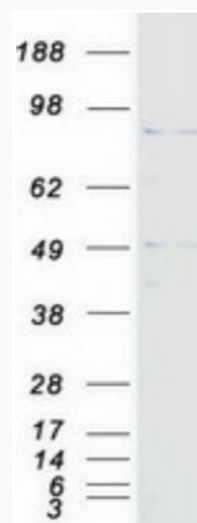
Gene Name PMEL premelanosome protein [Homo sapiens (human)]

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Official Symbol	PMEL
Synonyms	P1; SI; SIL; ME20; P100; SILV; HMB45; ME20M; gp100; HMB-45; ME20-M; PMEL17; D12S53E
Gene ID	6490
mRNA Refseq	NM_006928.5
Protein Refseq	NP_008859.1
MIM	155550
UniProt ID	P40967



Coomassie blue staining of purified PMEL protein.