HUMAN PMEL PROTEIN, HFC TAG

Cat.#: 11231

Product Name: Human PMEL Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: D12S53E;gp100;ME20;ME20-M;ME20M;P1;P100;PMEL17;SI;SIL;SILV

Target: PMEL

UNIPROT ID: P40967

Description: Recombinant human PMEL Protein with C-terminal Human Fc tag

Background: 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]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 46.2 kDa after removal of the signal peptide.The apparent molecular mass of PMEL-hFc is approximately 130-250 kDa due to glycosylation.

Molecular Characterization: PMEL(Lys25-Ala595) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

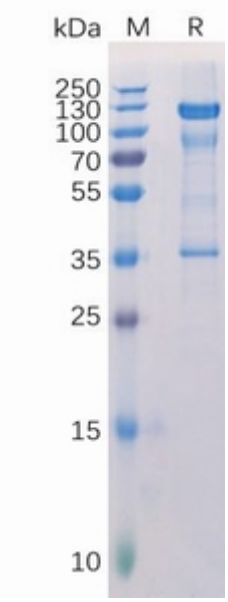

Figure 1. Human PMEL Protein, hFc Tag on SDS-PAGE under reducing condition.