

HUMAN PROM1 PROTEIN, HFC TAG**Cat.#:** 11634**Product Name:** Human PROM1 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** AC133;CD133;CORD12;MCDR2;MSTP061;PROML1;RP41;STGD4**Target:** PROM1**UNIPROT ID:** O43490**Description:** Recombinant human PROM1 protein with N-terminal Human Fc tag**Background:** This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of this gene is also associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple transcript variants encoding different isoforms have been found for this gene.**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 36.6 kDa after removal of the signal peptide.**Molecular Characterization:** hFc(Glu99-Ala330) PROM1 (Gly20-Gly108)**Purity:** The purity of the protein is greater than 90% 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.

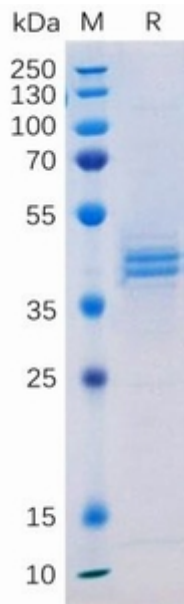


Figure 1. Human PROM1 Protein, hFc Tag on SDS-PAGE under reducing condition.