

**HUMAN 4-1BB PROTEIN, HIS TAG****Cat.#:** 11305**Product Name:** Human 4-1BB Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** TNFRSF9;4-1BB;CD137;CDw137;ILA**Target:** 4-1BB**UNIPROT ID:** Q07011**Description:** Recombinant human 4-1BB protein with C-terminal 6xHis tag

**Background:** The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contributes to the clonal expansion, survival, and development of T cells. It can also induce proliferation in peripheral monocytes, enhance T cell apoptosis induced by TCR/CD3 triggered activation, and regulate CD28 co-stimulation to promote Th1 cell responses. The expression of this receptor is induced by lymphocyte activation. TRAF adaptor proteins have been shown to bind to this receptor and transduce the signals leading to activation of NF-kappaB.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 18.1 kDa after removal of the signal peptide. The apparent molecular mass of 4-1BB-His is approximately 25-35 kDa due to glycosylation.

**Molecular Characterization:** 41BB(Leu24-Gln186) 6×His

**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.

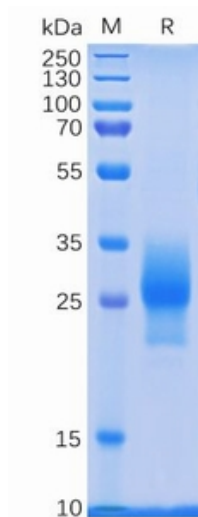


Figure 1. Human 4-1BB Protein, His Tag on SDS-PAGE under reducing condition.

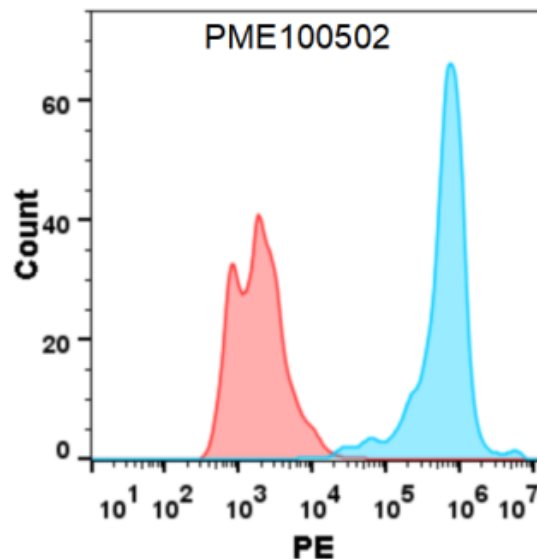


Figure 2. Flow cytometry analysis with 1  $\mu$ g/ml Human 4-1BB Protein, His tag (11305) on Expi293 cells transfected with human 4-1BBL (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).