

HUMAN NKP30 PROTEIN, HFC TAG

Cat.#: 11201

Product Name: Human NKp30 Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: NCR3;D337;Kp30;C7;Y117;ALS

Target: NKp30

UNIPROT ID: O14931

Description: Recombinant human NKp30 protein with C-terminal human Fc

Background: The protein encoded by this gene is a natural cytotoxicity receptor (NCR) that may aid NK cells in the lysis of tumor cells. The encoded protein interacts with CD3-zeta (CD247), a T-cell receptor. A single nucleotide polymorphism in the 5' untranslated region of this gene has been associated with mild malaria susceptibility. Three transcript variants encoding different isoforms have been found for this gene.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 39.0 kDa after removal of the signal peptide. The apparent molecular mass of NKp30-hFc is approximately 45-60 kDa due to glycosylation.

Molecular Characterization: NKp30(Leu19-Glu135) 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.

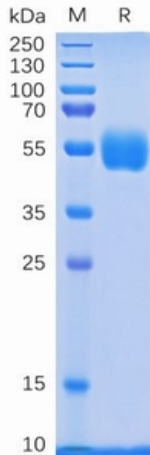


Figure 1. Human NKp30 Protein, hFc Tag on SDS-PAGE under reducing condition.

Human NKp30, hFc Tagged protein ELISA

0.2 μ g of B7H6, His Tagged protein per well

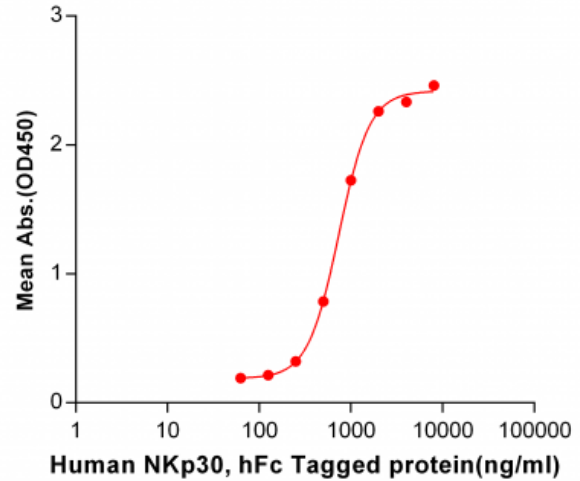


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human B7H6, His tagged protein 11313 can bind Human NKp30, hFc tagged protein (11201) in a linear range of 250–2000 ng/ml.

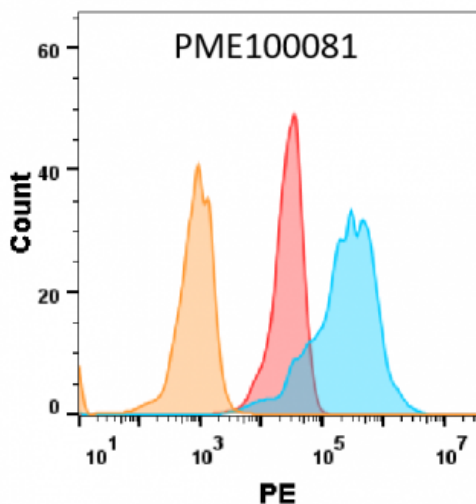


Figure 3. B7H6 protein is highly expressed on the surface of Expi293 cell membrane. Flow cytometry analysis with 2 μ g/ml Human NKp30 Protein, hFc Tag (11201) on Expi293 cells transfected with human B7H6 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram), and Isotype antibody on Expi293 transfected with irrelevant protein (Orange histogram).