HUMAN CD160 PROTEIN, HFC TAG

Cat.#: 11179
Product Name: Human CD160 Protein
Size : 10 µg, 50 µg and 100 µg
Synonyms: BY55;NK1;NK28
Target: CD160
UNIPROT ID: O95971
Description: Recombinant human CD160 protein with C-terminal human Fc
Background: CD160 is an 27 kDa glycoprotein which was initially identified with the monoclonal antibody BY55. Its expression is tightly associated with peripheral blood NK cells and CD8 T lymphocytes with cytolytic effector activity. The cDNA sequence of CD160 predicts a cysteine-rich, glycosylphosphatidylinositol-anchored protein of 181 amino acids with a single Ig-like domain weakly homologous to KIR2DL4 molecule. CD160 is expressed at the cell surface as a tightly disulfide-linked multimer. RNA blot analysis revealed CD160 mRNAs of 1.5 and 1.6 kb whose expression was highly restricted to circulating NK and T cells, spleen and small intestine. Within NK cells CD160 is expressed by CD56dimCD16 cells whereas among circulating T cells its expression is mainly restricted to TCRgd bearing cells and to TCRab CD8brightCD95 CD56 CD28-CD27-cells. In tissues, CD160 is expressed on all intestinal intraepithelial lymphocytes. CD160 shows a broad specificity for binding to both classical and nonclassical MHC class I molecules. [provided by RefSeq, Jul 2008]
Species/Host: HEK293
Molecular Weight: The protein has a predicted molecular mass of 40.9 kDa after removal of the signal peptide.The apparent molecular mass of CD160-hFc is approximately 55-70 kDa due to glycosylation.
Molecular Characterization: CD160(Ile27-Ser159) 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.

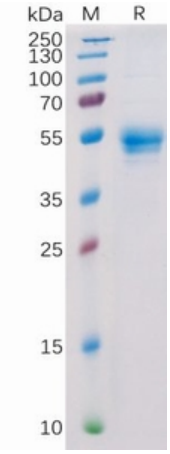

Figure 1. Human CD160 Protein, hFc Tag on SDS-PAGE under reducing condition.

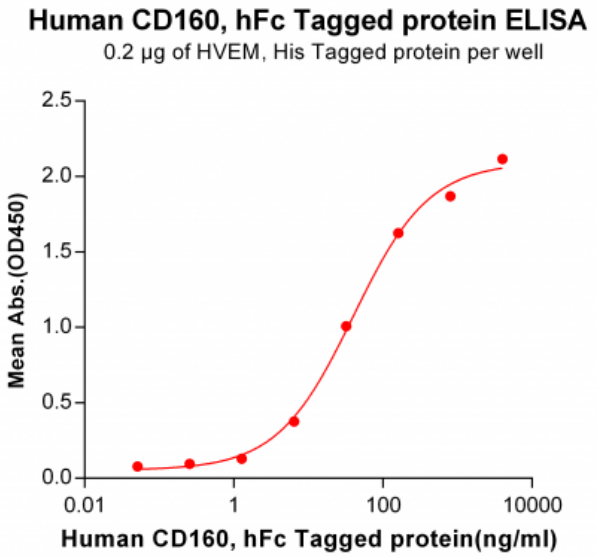

Figure 2. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human HVEM, His tagged protein 11253 can bind Human CD160,hFc tagged protein (11179) in a linear range of 1.28-160 ng/ml.

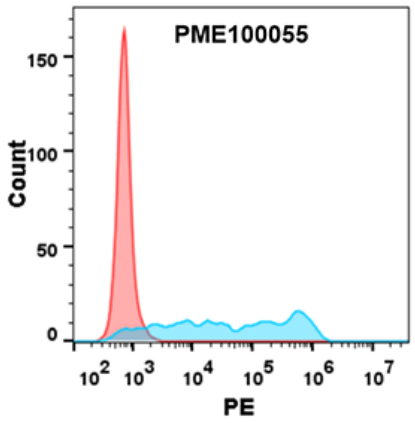

Figure 3. Flow cytometry analysis with 1μg/ml Human CD160 Protein, hFc tag (11179) on Expi293 cells transfected with human HVEM (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).