HUMAN NPC1L1 FULL LENGTH PROTEIN

Cat.#: 11070
Product Name: Human NPC1L1 Full Length Protein
Size : 10 µg, 50 µg and 100 µg
Synonyms: LDLCQ7; NPC11L1; SLC65A2
Target: NPC1L1
UNIPROT ID: Q9UHC9
Description: Human NPC1L1 full length protein-synthetic nanodisc
Background: The protein is a multi-pass membrane protein. It contains a conserved N-terminal Niemann-Pick C1 (NPC1) domain and a putative sterol-sensing domain (SSD) which includes a YQRL motif functioning as a plasma membrane to trans-Golgi network transport signal in other proteins. This protein takes up free cholesterol into cells through vesicular endocytosis and plays a critical role in the absorption of intestinal cholesterol. It also has the ability to transport alpha-tocopherol (vitamin E). The drug ezetimibe targets this protein and inhibits the absorption of intestinal cholesterol and alpha-tocopherol. In addition, this protein may play a critical role in regulating lipid metabolism. Polymorphic variations in this gene are associated with plasma total cholesterol and low-density lipoprotein cholesterol (LDL-C) levels and coronary heart disease (CHD) risk.
Species/Host: HEK293
Molecular Weight: The human full length NPC1L1 protein has a MW of 148.7 kDa
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.

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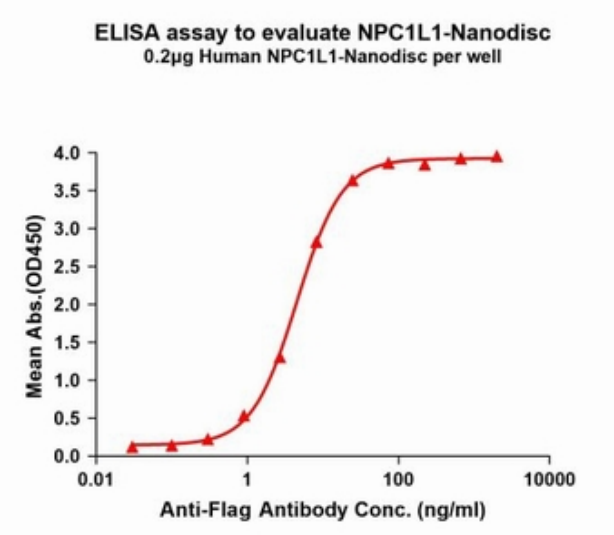

Figure1. Elisa plates were pre-coated with Flag Tag NPC1L1-Nanodisc (0.2 μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with NPC1L1-Nanodisc is 4.526ng/ml.

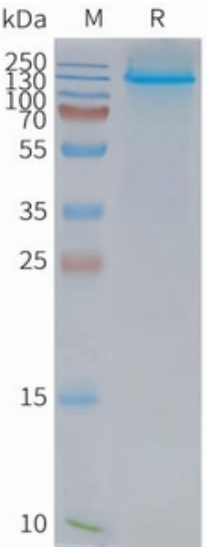

Figure2. Human NPC1L1-Nanodisc, Flag Tag on SDS-PAGE

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