

Product Information

MemDX™ Membrane Protein Human NPC1L1 (NPC1 like intracellular cholesterol transporter 1) Full Length

Cat. No.: **MPC1010K**

This product is for research use only and is not intended for diagnostic use.

This product is a 148.7 kDa Human NPC1L1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NPC1L1

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

148.7 kDa

TMD

13

Sequence

MAEAGLRGWLLWALLLRLAQSEPYTTIHQPGYCAFYDECGKNPELSGSLM
TLSNVSCLSNTPARKITGDHLILLQKICPRLYTGPNTQACCSAKQLVSLE
ASLSITKALLTRCPACSDNFVNLHCHNTCSPNQSLFINVTRVAQLGAGQL
PAVVAYEAFYQHSFAEQSYDSCSRVRVPAATLAVGTMCGVYGSALCNAQ
RWLNFQGGDTGNGLAPLDITFHLLEPGQAVGSGIQPLNEGVARCNESQGDD
VATCSCQDCAASCPAARPQALDSTFYLGQMPGSLVLIILCSVFAVVTI
LLVGFRVAPARDKSKMVDPKKGTSLSDKLSFSTHTLLGQFFQGWGTWVAS
WPLTILVLSVIPVVALAAGLVFTELTTDPVELWSAPNSQARSEKAFHDQH
FGPFFRTNQVILTAPNRSSYRYDSLILGPKNFGILDLDLLELLELQER
LRHLQVWSPEAQRNLSLQDICYAPLNPDNTSLYDCCINSLLQYFQNNRTL
LLLTANQTLMGQTSQVDWKDHFYCANAPLTFKDGTALALSCMADYGAPV
FPFLAIGGYKGKDYSEAEALIMTFSLNNYPAGDPRLAQAKLWEEAFLEEM
RAFQRRMAGMFQVTFMAERSLEDEINRTTAEDLPIFATSYIVIFLYISLA
LGSYSSWSRVMVDSKATLGLGGVAVVLGAVMAAMGFFSYLGIRSSLVILQ
VVPFLVLSVGADNIFIVLEYQRLPRRPGEPREVHIGRALGRVAPSMLLC
SLSEAICFFLGALTPMPAVRTFALTSGLAVIDFLLQMSAFVALLSLDSK
RQEASRLDVCCCVKQELPPPGQGEGLLLGGFFQKAYAPFLLHWITRGVVL
LLFLALFGVSLYSMCHISVGLDQELALPKDSYLLDYFLFLNRYFEVGAPV
YFVTTLGYNFSSEAGMNAICSSAGCNNFSFTQKIYATEFPEQSYLAIPA

SSWVDDFIDWLTPSSCCRLYISGPNKDKFCPSTVNSLNCLKNCMSITMGS
VRPSVEQFHKYL PWFLNDRPNIKCPKGGLAAYSTSVNLTS DGQVLDTVAI
LSPRLEYS GTISAHCNLYLLDSTSRFMAYHKPLKNSQDYTEALRAARELA
ANITADLRKVP GTDPAFEVFPYTITNVFYEQYL TILPEGLFMLS LCLVPT
FAVSCLLLGLDLRSGLLNLLSIVMILVDTVGF MALWGISYNAVSLINLVS
AVGMSVEFVSHITRSFAISTKPTWLERAKEATISMGS AVFAGVAMTNLPG
ILVLGLAKAQLIQIFFFRLNLLITLLG LLHGLVFLPVILSYVGP DVNPAL
ALEQKRAEEA VAAVMVASC PNHPSRVSTADNIYVNHSFE GSIKGAGAI SN
FLPNNGRQF

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

NPC1L1

Full Name

NPC1 like intracellular cholesterol transporter 1

Introduction

The protein encoded by this gene 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Alternative Names

NPC1L1; LDLCQ7; NPC11L1; SLC65A2; NPC1-like intracellular cholesterol transporter 1; NPC1 (Niemann-Pick disease, type C1, gene)-like 1; NPC1 like 1; niemann-Pick C1-like protein 1; NPC1 like intracellular cholesterol transporter 1

Gene ID

[29881](#)

UniProt ID

