

Product Information

MemDX™ Membrane Protein Human LRP2 (LDL receptor related protein 2) Expressed in NS0 for Antibody Discovery, Partial (2698-3110aa)

Cat. No.: **MPX0066K**

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

This product is a 47 kDa Human LRP2 membrane protein expressed in NS0. 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

LRP2

Protein Length

Partial (2698-3110aa)

Protein Class

Transporter

Molecular Weight

47 kDa

TMD

1

Sequence

RC
GASSFTCSNGRCISEEWKCDNDNDCGDGSDMESVCALHTCSPTAFTCAN
GRCVQYSYRCDYYNDCGDGSD EAGCLFRDCNATTEFMCNNRRCIPREFIC
NGVDNCHDNNTSDEKNCPDRTCQSGYTKCHNSNICIPRVYLCDGDND CGD
NSDENPTYCTTHTCSSSEFQCASGRICIPQHWYCDQETDCFDASDEPASC G
HSERTCLADEFKCDGGRCIPSEWICDGDND CGDMSDEDKRHQCQNQNCSD
SEFLCVNDRPPDRRCIPQSWVCDGDVDCTDGYDENQNCTRRTCSENEFTC
GYGLCIPKIFRCDRHNDCGDYSDERGCLYQTCQQNQFTCQNGRCISKTFV
CDEDNDCGDGSD ELMHLCHTPEPTCPPHEFKCDNGRCIEMMKLCNHLDDC
LDNSDEKGC G

Product Description

Expression Systems

NS0

Tag

6xHis tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Reconstitute at 250 µg/mL in PBS.

Endotoxin

<0.1 EU/µg by the LAL method

Purity

>85%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Buffer

Lyophilized from a 0.2 µm filtered solution in PBS.

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**

LRP2

Full Name

LDL receptor related protein 2

Introduction

The protein encoded by this gene, low density lipoprotein-related protein 2 (LRP2) or megalin, is a multi-ligand endocytic receptor that is expressed in many different tissues but primarily in absorptive epithelial tissues such as the kidney. This glycoprotein has a large amino-terminal extracellular domain, a single transmembrane domain, and a short carboxy-terminal cytoplasmic tail. The extracellular ligand-binding-domains bind diverse macromolecules including albumin, apolipoproteins B and E, and lipoprotein lipase. The LRP2 protein is critical for the reuptake of numerous ligands, including lipoproteins, sterols, vitamin-binding proteins, and hormones. This protein also has a role in cell-signaling; extracellular ligands include parathyroid hormones and the morphogen sonic hedgehog while cytosolic ligands include MAP kinase scaffold proteins and JNK interacting proteins. Recycling of this membrane receptor is regulated by phosphorylation of its cytoplasmic domain. Mutations in this gene cause Donnai-Barrow syndrome (DBS) and facio-oculoacoustico-renal syndrome (FOAR).

Alternative Names

DBS; GP330; LRP-2; low-density lipoprotein receptor-related protein 2; Heymann nephritis antigen homolog; calcium sensor protein; glycoprotein 330; megalin; LRP2; LDL receptor related protein 2

Gene ID

[4036](#)

UniProt ID

[P98164](#)