

Product Information

MemDX™ Membrane Protein Human LRP5 (LDL receptor related protein 5) Full Length

Cat. No.: **MPC1293K**

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

This product is a 179.1 kDa Human LRP5 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

LRP5

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

179.1 kDa

TMD

1

Sequence

MEAAPPGPPWPLLLLLLLLLLALCGCPAPAAASPLLLFANRRDVRLVDAGG
VKLESTIVSGLEDAAVDFQFSKGAVYWTDVSEEAIKQTYLNQTGAHVQ
NVVISGLVSPDGLACDWVGKKLYWTDSETNRIEVANLNGTSRKVLFWQDL
DQPRALDPAHGYMYWTDWGETPRIERAGMDGSTRKIIVDSDIYWPNGL
TIDLEEQLYWADAKLSFIHRANLDGSFRQKVVEGSLTHPFALTLSGDTL
YWTDWQTRSIHACNKRGTGGRKEILSALYSPMDIQVLSQERQPFHTRCE
EDNGGCShLCLLSPSEPFYTCACPTGVQLQDNGRTCKAGAEVLLARRT
DLRRISLDTPDFTDIVLQVDDIRHAIADYDPLEGYVYWTDDEVRAIRRA
YLDGSGAQTLVNTEINDPDGIAVDWVARNLYWTDGTGTDRIEVRTLNQTSR
KILVSEDLDEPRAIALHPVMGLMYWTDWGENPKIECANLDGQERRVLVNA
SLGWPNGLALDLQEGKLYWGDAKTDKIEVINVDGTRRTLLDKLPHIFG
FTLLGDFIYWTDWQRRSIEVRHVKVKSARDVIDQLPDLMLGKAVNVAKVV
GTNPCADRNGGCShLCFFTPHATRCGCPIGLELLSDMKTCIVPEAFVFT
SRAAIHRISLETNNNDVAIPLTGVKEASALDFDVSNHHIYWTDVSLKTIS
RAFMNGSSVEHVVEFGLDYPEGMAVDWMGKNLYWADTGTNRIEVARLDGQ
FRQVLVWRDLNPRSLALDPTKGYIYWTEWGGKPRIVRAFMDGTNCMTLV
DKVGRANDLTIDYADQRLYWTDLDTNMISSNMLGQERVVIADDLPHFPFG
LTQYSDIYWTDWNLHSIERADKTSGRNRTLIQGHLDVMDILVFHSSRQ
DGLNDCMHNNNGCQGLCLAIPGGHRCGCASHYTLDPSSRNCSPPTTFLLF
SQKSAISRMIPDDQHSPDLILPLHGLRNVKAIDYDPLDKFIYWVDGRQNI
KRAKDDGTQPFVLTSLSQGQNPDRQPHDLSIDIYSRTLFWTCEATNTINV

HRLSGEAMGVVLRGDRDKPRAIVVNAERGYLYFTNMQDRAAKIERAALDG
TEREVLFTTGLIRPVALVVDNTLGKLFWVDADLKRIESCDLSGANRLTLE
DANIVQPLGLTILGKHLVWDRQQMIERVEKTTGDKRTRIQQGRVAHLTG
IHAVEEVSLLEFSAHPCARDNGGCSHICIAKGDGTPRCSCPVHLVLLQNL
LTCGEPPTCSPDQFACATGEIDCIPGAWRCDGFPECDDQSDEEGCPVCSA
AQFPCARGQCVDLRLRCDGEADCQDRSDEADCDAICLPNQFRCASGQCVL
IKQQCDSFPDCIDGSDELMCEITKPPSDDSPAHSAGPVGIIISLFVM
GGVYFVCQRVVCQRYAGANGPFPHEYVSGTPHVPLNFIAPGGSQHGPFTG
IACGKSMSSSVSLMGGRGVPLYDRNHVTGASSSSSSSTKATLYPPILNP
PPSPATDPSLYNMDMFYSSNIPATARPYPYIIRGMAPPTTPCSTDVCD
DYSASRWKASKYYLDLNSDSDPYPPPTPHSQYLSAEDSCPPSPATERSY
FHLFPPPPSPCTDSS

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

LRP5

Full Name

LDL receptor related protein 5

Introduction

This gene encodes a transmembrane low-density lipoprotein receptor that binds and internalizes ligands in the process of receptor-mediated endocytosis. This protein also acts as a co-receptor with Frizzled protein family members for transducing signals by Wnt proteins and was originally cloned on the basis of its association with type 1 diabetes mellitus in humans. This protein plays a key role in skeletal homeostasis and many bone density related diseases are caused by mutations in this gene. Mutations in this gene also cause familial exudative vitreoretinopathy. Alternative splicing results in multiple transcript variants.

Alternative Names

LRP5; HBM; LR3; OPS; EVR1; EVR4; LRP7; OPPG; BMND1; LRP-5; LRP-7; OPTA1; PCLD4; VBCH2; low-density lipoprotein receptor-related protein 5; low density lipoprotein receptor-related protein 5; low density lipoprotein receptor-related protein 7; LDL receptor related protein 5

Gene ID

[4041](#)

UniProt ID

[O75197](#)