

Product Information

MemDX™ Membrane Protein Human LRP5 (LDL receptor related protein 5) for Antibody

Discovery

Cat. No.: **MP0583J**

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

This product is a 179 kDa Human LRP5 membrane protein expressed in HEK293T. 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

Druggable Genome, Transmembrane

Molecular Weight

179 kDa

TMD

1

Sequence

MEAAPPGPPWPLLLLLLLLLLALCGCPAPAAASPLLLFANRRDVRLVDAGGVKLESTIVVSGLEDAAAVDF
QFSKGAVYWTDVSEEAIKQTYLNQTGAAVQNVVISGLVSPDGLACDWVGKKLYWTDSETNRIEVANLNGT
SRKVLFWQDLDPRAIALDPAHGYMYWTDWGETPRIERAGMDGSTRKIIVDSDIYWPNGLTIDLEEQKLY
WADAKLSFIHRANLDGSFRQKVVEGSLTHPFALTLSGDTLYWTDWQTRSIHACNKRTGGKRKEILSALYS
PMDIQVLSQERQPFHTRCEEDNGGCShLCLLSPSEPFYTCACPTGVQLQDNGRTCKAGAEVLLARRT
DLRRISLDTPDFTDIVLQVDDIRHAIADYDPLEGYVYWTDDEVRAIRRAYLDGSGAQLTVNTEINDPDG
IAVDWVARNLYWTDGTDRIEVTRLNGTSRKILVSEDLDEPRAIALHPVMGLMYWTDWGENPKIECANLD
GQERRVLVNASLGWPNGLALDLQEGKLYWGDADTKIEVINVDGTRKRTLLEDKLPHFIFGFTLLGDFIYW
TDWQRRSIERVHKVKASRDVIDQLPDLMLGLKAVNVAKVGTNPACDRNGGCShLCFFTPHATRCGCPIG
LELLSDMKTCIVPEAFLVFTSRAAIHRISLETNNNDVAIPLTGKVEASALDFDVSNNHIYWTDVSLKTIS
RAFMNGSSVEHVVEFGLDYPEGMAVDWMGKNLYWADTGTNRIEVARLDGQFRQVLVWRDLNPRSLALDP
TKGYIYWTEWGGKPRIVRAFMDGTNCMTLVDKVGRANDLTIDYADQRLYWTDLDTNMISSNMLGQERVV
IADDLPHPFGLTQYSDIYWTDWNLHSIERADKTSGRNRTLQGHLDVMDILVFHSSRQDGLNDCMHNN
GQCGQLCLAIPGGHRCGCASHYTLDPSSRNCSPPTTFLFSQKSAISRMIPDDQHSPDLILPLHGLRNVK
AIDYDPLDKFIYWVDGRQNIKRAKDDGTQPFVLTLSLQSQNPDRQPHDLSIDIYSRTLFWTCEATNTINV
HRLSGEAMGVVLRGDRDKPRAIVVNAERGYLYFTNMQDRAAKIERAALDGTREVLFTTGLIRPVALVD
NTLGKLFWVDADLKRIESCDLSGANRLTLEDANIVQPLGLTILGKHLWIDRQQQMIEERVEKTTGDKRTR
IQGRVAHLTGIIHAVEEVSLFEFSAHPCARDNGGCShICIAKGDGTPRCSCPVLHLLQNLLTCGEPPTCS
PDQFACATGEIDCIPGAWRCDGFPECDDQSDDEEGCPVCSAAQFPCARGQCVDLRLRCDGEADCQDRSDEV

DCDAICLPNQFRCASGQCVLKQQCDSFPDCIDGSDELMCEITKPPSDDSPAHSSAIGPVIGIILSLFVM
GGVYFVCQRVVCQRYAGANGPFPHEYVSGTPHVPLNFIAPGGSQHGPFTHGACGKSMSSVSLMGGRGGV
PLYDRNHVTGASSSSSSTKATLYPPILNPPSPATDPSLYNMDMFYSSNIPATARPYPYIIRGMAPP
TPCSTDVCDSDYSASRWKASKYYLDLNSDSDPYPPPPTPHSQYLSAEDSCPPSPATERSYFHLFPPPPSP
CTDSS

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

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

HBM; LR3; OPS; EVR1; EVR4; LRP7; OPPG; BMND1; LRP-5; LRP-7; OPTA1; PCLD4; VBCH2

Gene ID

[4041](#)

UniProt ID

[O75197](#)