

Recombinant Human LRP5

Cat. No. LRP5-29428TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 41-130 of Human LRP5 protein with an N terminal proprietary tag; 35.53 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	90 amino acids
Description	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.
Molecular Weight	35.530kDa inclusive of tags
Tissue specificity	Widely expressed, with the highest level of expression in the liver.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.03% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RDVRLVDAGGVKLESTIVVSGLEDAAAVDFQFSKGAVYWTDVSEEAIKQTYLNQTG AAVQNVVISGLVSPDGLACDWVGKKLYWTDSETN
Sequence Similarities	Belongs to the LDLR family.Contains 4 EGF-like domains.Contains 3 LDL-receptor class A domains.Contains 20 LDL-receptor class B repeats.

GENE INFORMATION

Gene Name	LRP5 low density lipoprotein receptor-related protein 5 [Homo sapiens]
Official Symbol	LRP5
Synonyms	LRP5; low density lipoprotein receptor-related protein 5; EVR1, exudative vitreoretinopathy 1 , LRP7, OPPG, osteoporosis pseudoglioma syndrome; low-density lipoprotein receptor-related protein 5; BMND1; HBM; LR3; OPS;
Gene ID	4041
mRNA Refseq	NM_002335
Protein Refseq	NP_002326
MIM	603506
Uniprot ID	O75197

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Chromosome Location	11q13.4
Pathway	MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem; N-cadherin signaling events, organism-specific biosystem; Wnt Signaling Pathway NetPath, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem; Wnt signaling network, organism-specific biosystem;
Function	Wnt-activated receptor activity; Wnt-protein binding; coreceptor activity; protein binding; receptor activity;

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