

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 | <p>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.</p> |
| 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 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---------------------------------|---|
| Storage buffer | pH: 8.00 Constituents: 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 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|----------------------------|---|
| 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; |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA