

# Recombinant Human LRP6 Protein, N-His tagged, Avi-biotinylated

**Cat. No.** LRP6-7875HB    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human LRP6 Protein with N-His tag and Avi-biotin was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene encodes a member of the low density lipoprotein (LDL) receptor gene family. LDL receptors are transmembrane cell surface proteins involved in receptor-mediated endocytosis of lipoprotein and protein ligands. The protein encoded by this gene functions as a receptor or, with Frizzled, a co-receptor for Wnt and thereby transmits the canonical Wnt/beta-catenin signaling cascade. Through its interaction with the Wnt/beta-catenin signaling cascade this gene plays a role in the regulation of cell differentiation, proliferation, and migration and the development of many cancer types. This protein undergoes gamma-secretase dependent RIP- (regulated intramembrane proteolysis) processing but the precise locations of the cleavage sites have not been determined. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 32.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MGSSHHHHHGLNDIFEAQKIEWHESSGLVPRGSHMASMTGGQQMGRGSEFWID<br>SRQNMIRKAQEDGSQGFTVVVSSVPSQNLEIQPYDLSIDIYSRYIYWTCEATNVINVT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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

RLDGRSVGVVLKGEQDRPRAVVVNPEKGYMYFTNLQERSPKIERAALDGTEREVLF  
FSGLSKPIALALDSRLGKLFWADSDLRRIESSDLSGANRIVLEDSNILQPVGTLTVFEN  
WLYWIDKQQQMIEKIDMTGREGRTKVQARIAQLSDIHAVKELNLQEYRQHPCAQDN  
GG

**Endotoxin** <1 EU/μg by LAL

**Purity** > 90% by SDS-PAGE

**Storage** Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Storage Buffer** Lyophilized from PBS, pH 7.4, 5% trehalose, 5% mannitol

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** LRP6 LDL receptor related protein 6 [ Homo sapiens (human) ]

**Official Symbol** LRP6

**Synonyms** LRP6; LDL receptor related protein 6; ADCAD2; STHAG7; low-density lipoprotein receptor-related protein 6; LRP-6

**Gene ID** 4040

**mRNA Refseq** NM\_002336

**Protein Refseq** NP\_002327

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MIM 603507

UniProt ID O75581

Reducing 12% SDS-  
PAGE and WB  
analysis profile of  
purified LRP6



1. LRP6  
2. BSA

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