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Datasheet for ABIN7199464

**LRP6 Protein (AA 20-630) (His-Avi Tag,Biotin)**

## Overview

Quantity:	200 µg
Target:	LRP6
Protein Characteristics:	AA 20-630
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRP6 protein is labelled with His-Avi Tag,Biotin.

## Product Details

Purpose:	Biotinylated Human LRP-6 (20-630) Protein, His,Avitag™
Sequence:	Ala 20 - Pro 630
Characteristics:	Biotinylated Human LRP-6, His,Avitag (LR6-H82E7) is expressed from human 293 cells (HEK293). It contains AA Ala 20 - Pro 630 (Accession # O75581-1 ).
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	LRP6
Alternative Name:	LRP-6 ( <a href="#">LRP6 Products</a> )
Background:	Synonyms: LRP-6,LRP6,

## Target Details

Description: LRP6 is a transmembrane low-density lipoprotein receptor that shares a similar structure with LRP5. Low-density lipoprotein receptor-related protein 6 is a key component of the LRP5/LRP6/Frizzled co-receptor group that is involved in canonical Wnt pathway. The Wnt-induced Fzd/LRP6 coreceptor complex recruits DVL1 polymers to the plasma membrane which, in turn, recruits the AXIN1/GSK3B-complex to the cell surface promoting the formation of signalsomes and inhibiting AXIN1/GSK3-mediated phosphorylation and destruction of beta-catenin.

Molecular Weight: 72.5 kDa

NCBI Accession: [NP\\_002327](#)

Pathways: [WNT Signaling](#), [Tube Formation](#)

## Application Details

Application Notes: This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 72.5 kDa. The protein migrates as 80-100 kDa under reducing (R) condition due to glycosylation.

Comment: Ready-to-use Avitag™ biotinylated protein:  
The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C

## Handling

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Storage Comment: -20°C