

Datasheet for ABIN2870752
LDLR Protein (AA 22-790) (His tag)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	LDLR
Protein Characteristics:	AA 22-790
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This LDLR protein is labelled with His tag.

Product Details

Sequence:	AA 22-790
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 86.2 kDa. The protein migrates as 120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by reduced SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	LDLR
Alternative Name:	LDL R (LDLR Products)

Target Details

Background:	<p>Low-Density Lipoprotein (LDL) Receptor is also known as LDLR, FH, FHC, LDLCQ2, and is a mosaic protein of ~840 amino acids (after removal of signal peptide) that mediates the endocytosis of cholesterol-rich LDL. It is a cell-surface receptor that recognizes the apoprotein B100 which is embedded in the phospholipid outer layer of LDL particles. The receptor also recognizes the apoE protein found in chylomicron remnants and VLDL remnants (IDL). It belongs to the Low density lipoprotein receptor gene family. LDL receptor complexes are present in clathrin-coated pits (or buds) on the cell surface, which when bound to LDL-cholesterol via adaptin, are pinched off to form clathrin-coated vesicles inside the cell. This allows LDL-cholesterol to be bound and internalized in a process known as endocytosis and prevents the LDL just diffusing around the membrane surface. This occurs in all nucleated cells (not erythrocytes), but mainly in the liver which removes ~70 % of LDL from the circulation. Synthesis of receptors in the cell is regulated by the level of free intracellular cholesterol, if it is in excess for the needs of the cell then the transcription of the receptor gene will be inhibited. LDL receptors are translated by ribosomes on the endoplasmic reticulum and are modified by the Golgi apparatus before travelling in vesicles to the cell surface. LDL is directly involved in the development of atherosclerosis, due to accumulation of LDL-cholesterol in the blood. Atherosclerosis is the process responsible for the majority of cardiovascular diseases.</p>
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Molecular Weight:	86.2 kDa
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NCBI Accession:	NP_034830
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Pathways:	Hepatitis C , Lipid Metabolism
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Application Details

Restrictions:	For Research Use only
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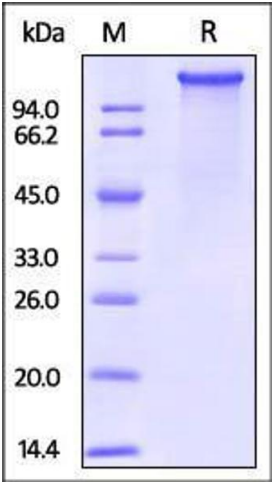
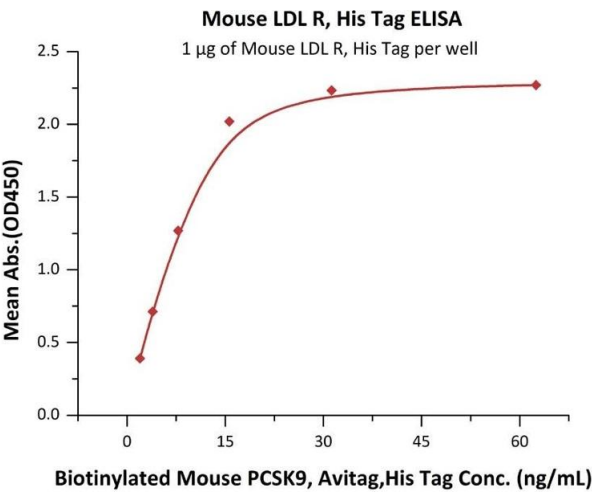
Handling

Format:	Lyophilized
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Buffer:	PBS, pH 7.4
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Handling Advice:	Please avoid repeated freeze-thaw cycles.
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Storage:	-20 °C
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ELISA

Image 1. Immobilized Mouse LDL R, His Tag (ABIN2870751,ABIN2870752) at 10 µg/mL (100 µL/well) can bind Biotinylated Mouse PCSK9, Avitag,His Tag (ABIN2870574,ABIN2870575) with a linear range of 2-16 ng/mL (QC tested).

SDS-PAGE

Image 2. Mouse LDL R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.