# Recombinant Mouse Low-density lipoprotein receptor/LDLR Protein

**Catalog No.: RP01504**

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## Sequence Information

**Species**
Mouse

**Gene ID**
16835

**Swiss Prot**
P35951

**Tags**
C-His

**Synonyms**
FH,FHC,LDLR,LDL Receptor, LDLCQ2,LDLR

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
85.20 kDa

**Observed MW**
100-150 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

The low density lipoprotein receptor (LDLR) family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. Low density lipoprotein (LDL) is normally bound at the cell membrane and taken into the cell ending up in lysosomes where the protein is degraded and the cholesterol is made available for repression of microsomal enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase, the rate-limiting step in cholesterol synthesis. At the same time, a reciprocal stimulation of cholesterol ester synthesis takes place. Mutations in LDLR gene lead to the autosomal dominant disorder, familial hypercholesterolemia.

## Basic Information

**Description**
Recombinant Mouse Low-density lipoprotein receptor/LDLR Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala22-Arg790) of mouse LDLR/LDL Receptor (Accession #NP_034830.2) fused with a 6×His tag at the C-terminus.

**Activity**
Measured by its binding ability in a functional ELISA. Immobilized Mouse LDLR (Catalog: RP01504) at 5 μg/mL (100 μL/well) can bind Mouse PCSK9(Catalog: RP01200) with a linear range of 4.88-271.36 ng/mL.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

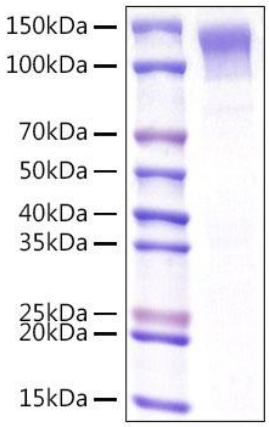
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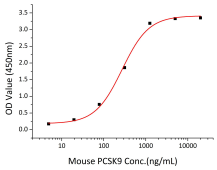


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## Validation Data




Recombinant Mouse Low-density lipoprotein receptor/LDLR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.




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