



## Rabbit Anti-LDL receptor antibody

SL0705R

<b>Product Name:</b>	LDL receptor
<b>Chinese Name:</b>	低密度Lipoprotein受体抗体
<b>Alias:</b>	Low-density lipoprotein receptor precursor; LDL-R; LDL R; FH; FHC; LDL R; LDLR; Low Density Lipoprotein Receptor; Low density lipoprotein receptor familial hypercholesterolemia.
<b>文献引用</b> <b>PubMed</b> :	<p><b>Specific References(3)</b> SL0705R has been referenced in 3 publications.</p> <p><b>[IF=2.97]</b>Wu, Hao, et al. "The antihypercholesterolemic effect of jatrorrhizine isolated from Rhizoma Coptidis." Phytomedicine (2014).<b>WB</b>; <a href="#">PubMed:24894270</a></p> <p><b>[IF=2.70]</b>Kou, Shuming, et al. "Synergetic cholesterol-lowering effects of main alkaloids from Rhizoma Coptidis in HepG2 cells and hypercholesterolemia hamsters." Life Sciences (2016).<b>WB;Human</b>. <a href="#">PubMed:26876917</a></p> <p><b>[IF=1.55]</b>Jia, Lianqun., et al. "Effects of Tanshinone IIA on the modulation of miR?33a and the SREBP?2/Pcsk9 signaling pathway in hyperlipidemic rats." Molecular Medicine Reports (2016).<b>IHC-P;Rat</b>. <a href="#">PubMed:27082100</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Guinea Pig,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	92kDa

<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human LDL-R:781-860/860<Cytoplasmic>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>The low density lipoprotein receptor (LDLR) gene 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 this gene cause the autosomal dominant disorder, familial hypercholesterolemia.</p> <p><b>Function:</b> Binds LDL, the major cholesterol-carrying lipoprotein of plasma, and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. In case of HIV-1 infection, functions as a receptor for extracellular Tat in neurons, mediating its internalization in uninfected cells.</p> <p><b>Subunit:</b> Interacts with LDLRAP1. Interacts with SNX17. Interacts with HCV E1/E2 heterodimer. Interacts with HIV-1 Tat.</p> <p><b>Subcellular Location:</b> Cell membrane; Single-pass type I membrane protein. Endomembrane system; Single-pass type I membrane protein. Membrane, clathrin-coated pit; Single-pass type I membrane protein. Note=Found distributed from the plasma membrane to intracellular compartments.</p> <p><b>Tissue Specificity:</b> Binds LDL, the major cholesterol-carrying lipoprotein of plasma, and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. In case of HIV-1 infection, functions as a receptor for extracellular Tat in neurons, mediating its internalization in uninfected cells.</p> <p><b>Post-translational modifications:</b> N- and O-glycosylated.</p>

Ubiquitinated by MYLIP leading to degradation.

**Similarity:**

Belongs to the LDLR family.

Contains 3 EGF-like domains.

Contains 7 LDL-receptor class A domains.

Contains 6 LDL-receptor class B repeats.

**SWISS:**

P01130

**Gene ID:**

3949

**Database links:**

[Entrez Gene: 3949](#)Human

[Entrez Gene: 16835](#)Mouse

[Entrez Gene: 300438](#)Rat

[Omim: 606945](#)Human

[SwissProt: P01130](#)Human

[SwissProt: P35951](#)Mouse

[SwissProt: P35952](#)Rat

[Unigene: 213289](#)Human

[Unigene: 728190](#)Human

[Unigene: 3213](#)Mouse

[Unigene: 10483](#)Rat

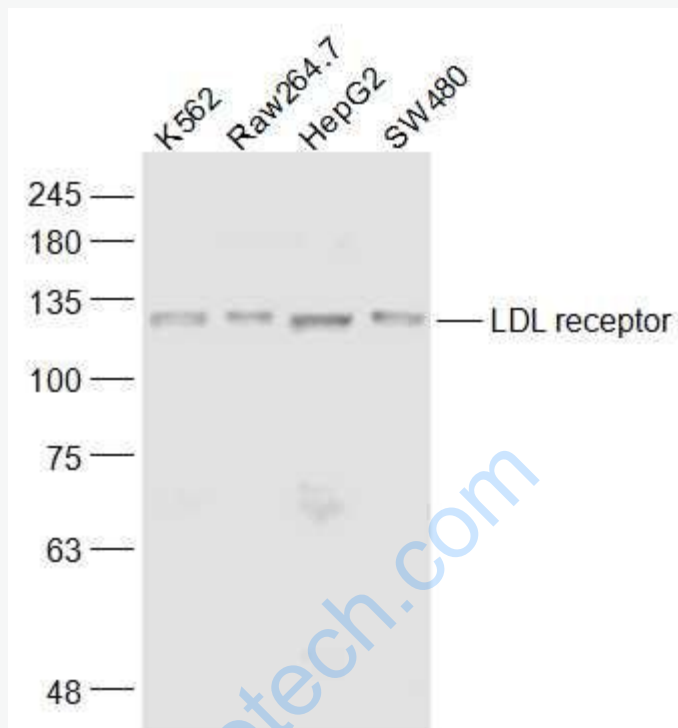
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**低密度Lipoprotein受体**

LDLR是一种存在于细胞表面的、可识别多种配体的Lipoprotein受体, 在体内对于富含甘油三酯的Lipoprotein代谢非常重要;

LDL R目前主要用于代谢及Tumour方面的研究。



Picture:

Sample:

K562(Human) Cell Lysate at 30 ug

Raw264.7(Mouse) Cell Lysate at 30 ug

HepG2(Human) Cell Lysate at 30 ug

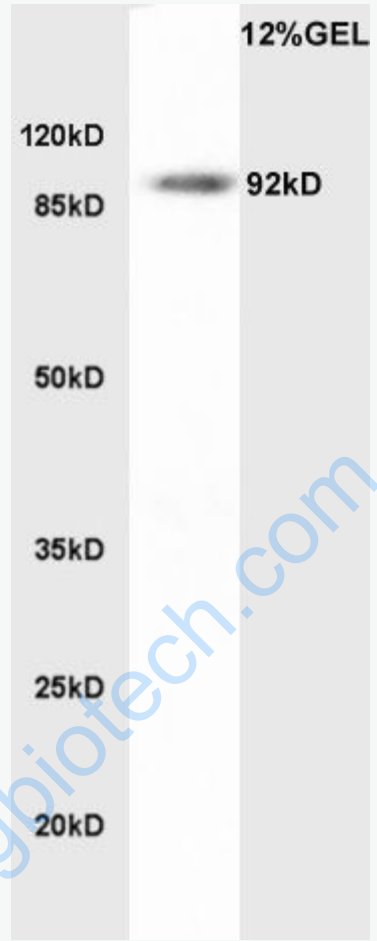
SW480(Human) Cell Lysate at 30 ug

Primary: Anti-LDL receptor?(SL0705R) at 1/1000 dilution

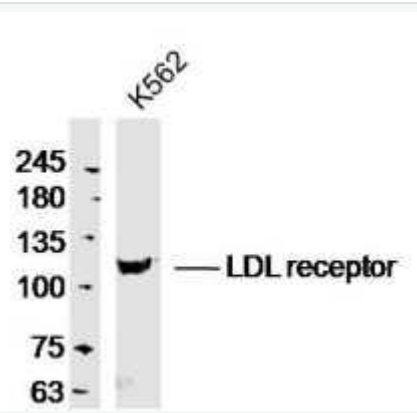
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 92 kD

Observed band size: 120 kD



Sample: Human colon Lysate at 45ug; Primary: Anti-LDL receptor (SL0705R) at 1:300 dilution; Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0705R) at 1:5000 dilution; Predicted band size : 92kD Observed band size : 92kD



Sample:

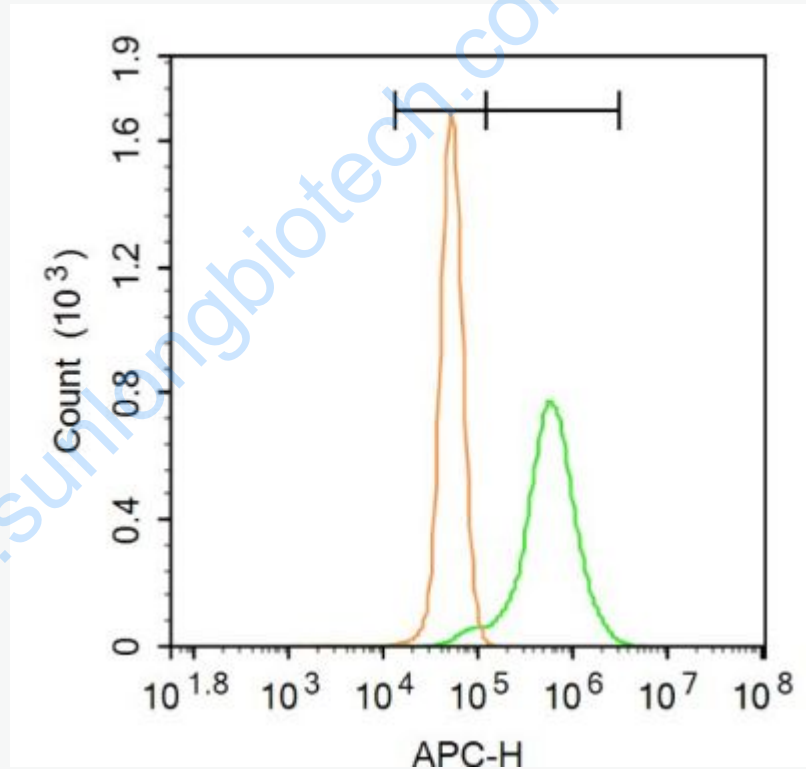
K562 Cell (Human) Lysate at 30 ug

Primary: Anti- LDL receptor (SL0705R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 92kD

Observed band size: 117kD



Blank control: A431.

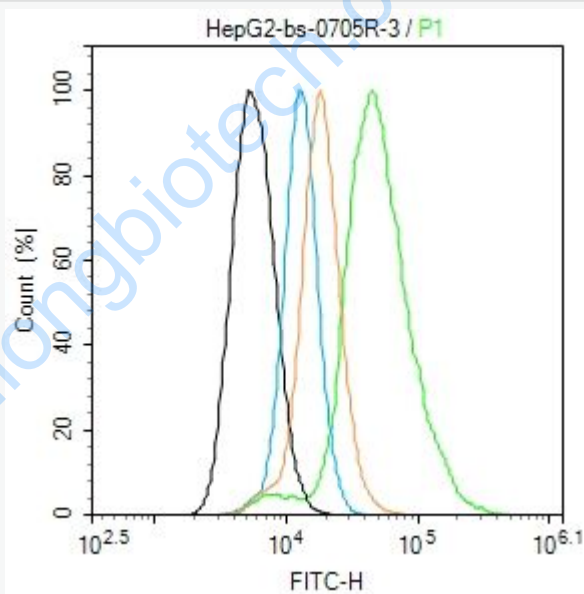
Primary Antibody (green line): Rabbit Anti-LDL receptor antibody (SL0705R), Dilution: 1 $\mu$ g /10<sup>6</sup> cells.

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-AF647, Dilution: 1 $\mu$ g /test.

## Protocol

A431 cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 20% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control (black line): HepG2 (black) (The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with PBST for 30 min on room temperature)

Primary Antibody (green line): Rabbit Anti-LDLreceptor antibody (SL0705R);  
Dilution: 1 $\mu$ g / 10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC; Dilution: 1 $\mu$ g

	<p>/test.</p>
--	---------------

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)