# Human Low density lipoprotein receptor (LDLR) ELISA Kit

Catalog No: #EK10130

Package Size: #EK10130-1 48T #EK10130-2 96T

Orders: order@signalwayantibody.com
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## Description

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| Product Name | Human Low density lipoprotein receptor (LDLR) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Human (Homo sapiens) |
| Other Names | FH; FHC; LDLCQ2; LDL receptor\|low-density lipoprotein receptor class A domain-containing protein 3 |
| Accession No. | P01130 |
| Uniprot | P01130 |
| GeneID | 3949; |
| Storage | The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C). |

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.124 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LDLR in samples. An antibody specific for LDLR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLDLR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LDLR is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LDLR bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The Low-Density Lipoprotein (LDL) Receptor is a mosaic protein 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). Brown and Goldstein won a Nobel Prize for their identification of the Low Density Lipoprotein (LDL) receptor in 1985 whilst they were studying familial hypercholesterolemia. The LDL receptor can be described as a chimeric protein. It is made up of a number of functionally distinct domains that can function independently of each other.

Note: This product is for in vitro research use only