Datasheet for ABIN5510704

LDLR ELISA Kit

1 Image

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Overview

Quantity:	96 tests
Target:	LDLR
Binding Specificity:	AA 22-788
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human LDLR
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: A22-R788
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Target Details

Target:	LDLR
Alternative Name:	LDLR (LDLR Products)
Background:	Protein Function: Binds LDL, the major cholesterol-carrying lipoprotein of plasma, and

Target Details

	transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. Background: The Low-Density Lipoprotein (LDL) Receptor is a mosaic protein of 839 amino acids (after removal of 21-amino acid signal peptide) that mediates the endocytosis of cholesterol-rich LDL. In humans, the LDL receptor protein is encoded by the LDLR gene. It belongs to the Low density lipoprotein receptor gene family. 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. Alternate splicing results in multiple transcript variants. Synonyms: Low-density lipoprotein receptor,LDL receptor,LDLR, Full Gene Name: Low-density lipoprotein receptor Cellular Localisation: 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. Golgi apparatus. Early endosome. Late endosome. Cell surface. Lysosome. Found distributed from the plasma membrane to intracellular compartments. Localizes to the Golgi apparatus, early and late endosomes/lysosomes and cell surface in the presence of PCSK9.
UniProt:	P01130
Pathways:	Hepatitis C, Lipid Metabolism

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

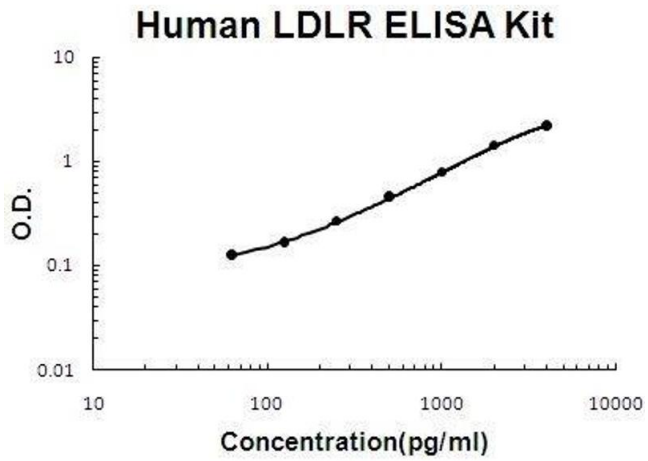
Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Handling

Expiry Date:	12 months

Images



ELISA

Image 1. Human LDLR PicoKine ELISA Kit standard curve