ARG81952
Human LDL receptor ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81952-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81952-002	Standard	2 X 10 ng/vial	4°C
ARG81952-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81952-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81952-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81952-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81952-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81952-008	25X Wash buffer	20 ml	4°C
ARG81952-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81952-010	STOP solution	10 ml (Ready to use)	4°C
ARG81952-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81952 Human LDL receptor ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human LDL receptor in serum, plasma (heparin), urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	LDL Receptor
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin), urine and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.1%; Inter-Assay CV: 6.6%
Alternate Names	FH; LDLCQ2; Low-density lipoprotein receptor; LDL receptor; FHC

Application Instructions

Assay Time	~ 5 hours

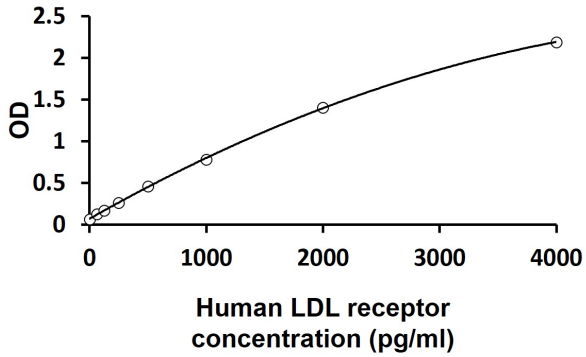
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LDLR
Gene Full Name	low density lipoprotein receptor
Background	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.[provided by RefSeq, Sep 2010]
Function	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. [UniProt]
Highlight	Related products: LDL Receptor antibodies; LDL Receptor ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	N- and O-glycosylated. Ubiquitinated by MYLIP leading to degradation. [UniProt]

Images



ARG81952 Human LDL receptor ELISA Kit standard curve image

ARG81952 Human LDL receptor ELISA Kit results of a typical standard run with optical density reading at 450 nm.