

Human LDLR ELISA Kit | LDLR elisa kit

Human LDLR PicoKine ELISA Kit

CATALOG #
AAA46704

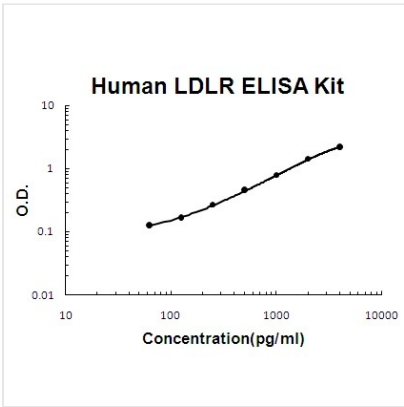
REACTIVITY
Human

PRODUCT SYNONYMS

LDLR; Human LDLR PicoKine ELISA Kit; FH; FHC; LDL R; LDL receptor; LDLCQ2; P01130; Low-density lipoprotein receptor; LDLR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human LDLR
Sequence Length	860
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	<12pg/ml
Assay Procedure Step 1	Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human LDLR standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum, plasma (heparin) or urine to each empty well. It is recommended that each human LDLR standard solution and each sample be measured in duplicate.
Sample Data	Concentration(pg/ml) 0 62.5 125 250 500 1000 2000 4000 O.D. 0.065 0.126 0.166 0.263 0.455 0.780 1.405 2.188
Intra/Inter Assay Precision	Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 270 862 1593 296 970 1654 Standard deviation 11.61 35.34 89.21 15.98 65.96 124.05 CV(%) 4.3 4.1 5.6 5.4 6.8 7.5
TMB incubation time	15-20
Anticoagulant	Heparin
Immunogen	NSO, A22-R788
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice).



Standard Curve (Sample)
Human LDLR PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for LDLR elisa kit	For quantitative detection of human LDLR in cell culture supernates, serum, plasma (heparin) and urine. 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. Principle: Human LDLR ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for LDLR has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: A22-R788) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for LDLR is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human LDLR amount of sample captured in plate.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504975
NCBI GeneID	3949
NCBI Accession #	NP_000518.1
NCBI GenBank Nucleotide #	NM_000527.4
UniProt Accession #	P01130; Q53ZD9; Q59FQ1; Q9UDH7; B4DII3; B4DJZ8; B4DR00; B4DTQ3; C0JYY8; H0YLU8; H0YNT7
Molecular Weight	82,255 Da
NCBI Official Full Name	low-density lipoprotein receptor isoform 1
NCBI Official Synonym Full Names	low density lipoprotein receptor
NCBI Official Symbol	LDLR
NCBI Official Synonym Symbols	FH; FHC; LDLCQ2
NCBI Protein Information	low-density lipoprotein receptor

UniProt Protein Name	Low-density lipoprotein receptor
UniProt Gene Name	LDLR
UniProt Synonym Gene Names	LDL receptor
UniProt Entry Name	LDLR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/dlr/46704>