

Mouse LDLR ELISA Kit | LDLR elisa kit

Mouse LDLR PicoKine ELISA Kit

CATALOG #
AAA46705

REACTIVITY
Mouse

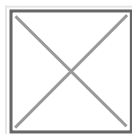
PRODUCT SYNONYMS

LDLR; Mouse LDLR PicoKine ELISA Kit; FH; FHC; LDL R; LDL receptor; LDLQC2; P35951; Low-density lipoprotein receptor; LDLR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Ldlr
Sequence Length	810
Samples	Cell culture supernatants, serum, plasma (heparin) and urine
Detection Range	62.5 pg/ml - 4,000 pg/ml
Sensitivity	<12 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in separate assays to assess inter-assay precision.
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).

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LDLR elisa kit	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 of the Assay: The Picokine™ Mouse Ldlr Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Ldlr with a 96-well strip plate that is pre-coated with antibody specific for Ldlr. The detection antibody is a biotinylated antibody specific for Ldlr. The kit contains recombinant Mouse Ldlr with immunogen: Expression system for standard: NS0; Immunogen sequence: A22-R790. The kit is analytically validated with ready-to-use reagents. To measure Mouse Ldlr, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Ldlr in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Ldlr in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	358030301
NCBI GeneID	16835
NCBI Accession #	NP_001239587.1
NCBI GenBank Nucleotide #	NM_001252658.1
UniProt Accession #	P35951; Q6GTJ9
Molecular Weight	94,947 Da
NCBI Official Full Name	low-density lipoprotein receptor isoform 2
NCBI Official Synonym Full Names	low density lipoprotein receptor
NCBI Official Symbol	Ldlr
NCBI Official Synonym Symbols	Hlb301
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_MOUSE

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.