



Rat very low-density lipoprotein receptor (VLDLR) ELISA kit (0.625-20 mmol/L)

Cat. No.:	0126WXX-759
Assay Type:	Quantitative sandwich ELISA
Target Species:	Rat
Assay Target:	VLDLR
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Rat very low-density lipoprotein receptor (VLDLR) ELISA kit (0.625-20 mmol/L) is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of VLDLR in rat samples with a range of 0.625-20 mmol/L and a minimum detectable dose (sensitivity) of 0.1 mmol/L. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on VLDLR antibody-VLDLR antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect VLDLR antigen targets in samples.
Background	VLDLR, situated at chromosomal location 9p24, is a multifunctional transmembrane receptor essential for the clathrin-mediated endocytosis of VLDL and the orchestration of Reelin-driven signaling pathways during nervous system development. While its genetic defects are primarily linked to CMARQ1, characterized by cerebellar hypoplasia and developmental delays, its metabolic role is critical for lipid transport and systemic cholesterol homeostasis.
Synonyms	VLDL-R
Formula Weight	96,098 Da
Applications	Rat very low-density lipoprotein receptor (VLDLR) ELISA kit (0.625-20 mmol/L) is used to quantify VLDLR in rat samples, providing data to support research in a wide range of areas, including signal transduction, metabolic pathway, endocrinology, cardiovascular biology, hepatology, obesity, and others.



Research Area

Signal transduction; Metabolic pathway; Endocrinology; Cardiovascular biology; Hepatology; Obesity

Specification

Sample Type

Rat samples

Detection Range

0.625-20 mmol/L

Sensitivity

0.1 mmol/L

Precision (Intra-assay)

CV<15%

Precision (Inter-assay)

CV<15%

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 2-8°C.