



Rat apolipoprotein C-III (apo-CIII) ELISA kit (1.56-100 ng/mL, <0.65 ng/mL)

Cat. No.:	OB0625WXX-166
Assay Type:	Quantitative sandwich ELISA
Target Species:	Rat
Assay Target:	apo-CIII
Size:	24T; 48T; 96T

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

Product Overview

Description	Rat apolipoprotein C-III (apo-CIII) ELISA kit (1.56-100 ng/mL, <0.65 ng/mL) is a n ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of apo-CIII in rats with a range of 1.56-100 ng/mL and a specificity of <0.65 ng/mL.
Assay Principle	The microtiter plate provided in this kit is pre-coated with an antibody specific for Apo-CIII. Standards or samples are added to the corresponding microtiter plate wells and the biotin-conjugated Apo-CIII-specific antibody. Avidin conjugated to horseradish peroxidase (HRP) is then added to each microtiter well and incubated. Only those wells containing Apo-CIII, biotin-conjugated antibody, and enzyme-conjugated avidin will show a color change upon addition of TMB substrate solution. The enzyme-substrate reaction is terminated by the addition of sulfuric acid solution, and the color change is measured spectrophotometrically at 450 nm \pm 10 nm. The OD of the sample is then compared to a standard curve to determine the concentration of Apo-CIII in the sample.
Background	Apolipoprotein C-III is secreted by the liver and small intestine. It is a very low-density lipoprotein (VLDL) protein that inhibits lipoprotein lipase and hepatic lipase. Studies have found that it plays a key role in the metabolism of tri glyceride-rich lipoproteins (TRLs).
Synonyms	ApoC-III ; ApoCIII; Apo C-III; Apo C III; Apolipoprotein CIII; APOC3
Formula Weight	10,852 Da
Applications	Rat apolipoprotein C-III (apo-CIII) ELISA kit (1.56-100 ng/mL, <0.65 ng/mL) is used to quantify apo-CIII in serum, plasma, and other biological fluid samples of rats, providing data to support a wide range of studies.
Research Area	Lipid metabolism; Fatty acid biosynthesis; Obesity research

Specification



Sample Type	Serum; Plasma; Other biological fluids
Detection Range	1.56-100 ng/mL
Sensitivity	<0.65 ng/mL
Precision (Intra-assay)	CV<10%
Precision (Inter-assay)	CV<12%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.