



Monkey apolipoprotein C-III (apo-CIII) ELISA kit (50-1000 ng/mL)

Cat. No.:	OB0625WXX-152
Assay Type:	Quantitative competitive ELISA
Target Species:	Monkey
Assay Target:	apo-CIII
Size:	48T; 96T

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

Product Overview

Description

Monkey apolipoprotein C-III (apo-CIII) ELISA kit (50-1000 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of apo-CIII in monkey with a range of 50-1000 ng/mL and a specificity of 1.0 ng/mL.

Assay Principle

The assay samples and buffer are incubated with Apo-CIII-HRP conjugate in pre-coated plates for one hour. At the end of the incubation period, the wells are poured out and washed five times. The wells are then incubated with the substrate for the HRP enzyme. The product of the reaction of the enzyme with the substrate forms a blue colored complex. Finally, the reaction is stopped by the addition of a stop solution, which turns the solution yellow. The color intensity is measured spectrophotometrically at 450 nm on a microplate reader. The color intensity is inversely proportional to the concentration of Apo-CIII because Apo-CIII and Apo-CIII-HRP conjugates in the sample compete for the binding site of the anti-Apo-CIII antibody. Since there are a limited number of binding sites, as more sites are occupied by Apo-CIII in the sample, fewer sites remain to bind the Apo-C III-HRP conjugate. A standard curve is plotted to relate the color intensity (O. D.) to the concentration of the standard. The Apo-CIII concentration in each sample is extrapolated from this standard curve.

**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 triglyceride-rich lipoproteins (TRLs).

Synonyms

ApoC-III ; ApoCIII; Apo C-III; Apo C III; Apolipoprotein CIII; APOC3

Formula Weight

10,852 Da

Applications

Monkey apolipoprotein C-III (apo-CIII) ELISA kit (50-1000 ng/mL) is used to quantify apo-CIII in serum, plasma, cell culture supernatants, body fluid, tissue homogenate samples of monkey, providing data to support a wide range of studies.

Research Area

Lipid metabolism; Fatty acid biosynthesis; Obesity research

Specification

Sample Type

Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate

Detection Range

50-1000 ng/mL

Sensitivity

1.0 ng/mL

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 2-8°C.