



Rat Apolipoprotein C-III(APOC3) ELISA kit

Product Code	CSB-EL001933RA
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	APOC3
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	apolipoprotein C-III
Uniprot No.	P06759
Alias	APOCIII, MGC150353
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Lipid degradation
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 ng/mL-2000 ng/mL
Sensitivity	7.8 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	Apoc3
Tag Info	quantitative
Protein Description	Competitive

Description

This Rat APOC3 ELISA Kit was designed for the quantitative measurement of Rat APOC3 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 31.25 ng/mL-2000 ng/mL and the sensitivity is 7.8 ng/mL.

Target Details

Apolipoprotein C-III is a very low density lipoprotein (VLDL) protein. APOC3 inhibits lipoprotein lipase and hepatic lipase; it is thought to delay catabolism of triglyceride-rich particles. The APOA1, APOC3 and APOA4 genes are closely linked in both rat and human genomes. The A-I and A-IV genes are transcribed from the same strand, while the A-1 and C-III genes are convergently



transcribed. An increase in apoC-III levels induces the development of hypertriglyceridemia.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat APOC3 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:100	Average %	92
	Range %	88-96
1:200	Average %	95
	Range %	91-99
1:400	Average %	93
	Range %	90-97
1:800	Average %	95
	Range %	89-99

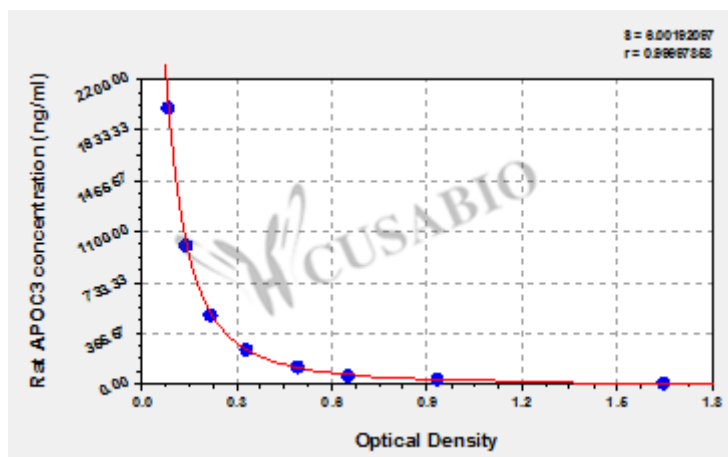
Recovery

The recovery of rat APOC3 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	91	87-93
EDTA plasma (n=4)	87	84-90

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml OD1 OD2 Average

2000 0.093 0.089 0.091

1000 0.152 0.144 0.148

500 0.227 0.218 0.223

250 0.336 0.328 0.332

125 0.498 0.488 0.493

62.5 0.657 0.640 0.649

31.25 0.963 0.893 0.928

0 1.673 1.583 1.628