



Mouse Apolipoprotein C-II(APOC2) ELISA kit

Product Code	CSB-EL001932MO
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	APOC2
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	apolipoprotein C-II
Uniprot No.	Q05020
Alias	MGC75082
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Lipid degradation
Sample Types	serum, plasma, tissue homogenates
Detection Range	18.8 ng/mL-1200 ng/mL
Sensitivity	9.4 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	Apoc2
Tag Info	quantitative
Protein Description	Competitive

Description

This Mouse APOC2 ELISA Kit was designed for the quantitative measurement of Mouse APOC2 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 18.8 ng/mL-1200 ng/mL and the sensitivity is 9.4 ng/mL.

Target Details

This protein is secreted in plasma where it is a component of very low density lipoprotein. This protein activates the enzyme lipoprotein lipase, which hydrolyzes triglycerides and thus provides free fatty acids for cells. Mutations in this gene cause hyperlipoproteinemia type IB, characterized by hypertriglyceridemia, xanthomas, and increased risk of pancreatitis and early



atherosclerosis.

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 mouse APOC2 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)
1:20	Average %	97
	Range %	88-102
1:40	Average %	93
	Range %	85-98
1:80	Average %	103
	Range %	96-107
1:160	Average %	104
	Range %	95-109

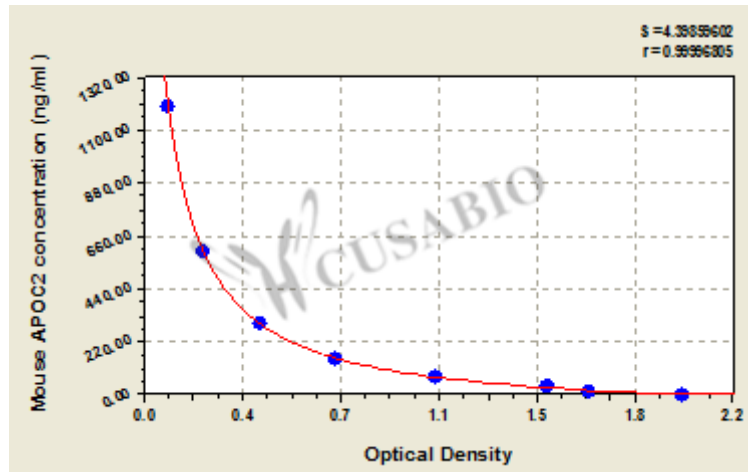
Recovery

The recovery of mouse APOC2 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)	95	91-99
EDTA plasma (n=4)	101	94-107

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

1200	0.094	0.097	0.096
600	0.229	0.221	0.225
300	0.429	0.444	0.437
150	0.707	0.726	0.717
75	1.109	1.068	1.089
37.5	1.535	1.474	1.505
18.8	1.682	1.639	1.661
0	2.048	1.967	2.008