





Rat Apolipoprotein A-IV(APOA4) ELISA kit

Product Code	CSB-EL001916RA
Abbreviation	APOA4
Protein Biological Process 1	Transport
Target Name	apolipoprotein A-IV
Uniprot No.	P02651
Alias	MGC142154, MGC142156
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Lipid transport
Sample Types	serum, plasma, tissue homogenates
Detection Range	9.38 ng/mL-600 ng/mL
Sensitivity	2.34 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	Cancer
Gene Names	Apoa4
Tag Info	quantitative
Protein Description	Sandwich
Description	The Rat Apolipoprotein A-IV (APOA4) ELISA kit is a powerful tool for the

The Rat Apolipoprotein A-IV (APOA4) ELISA kit is a powerful tool for the quantitative detection of Apolipoprotein A-IV in serum, plasma, and tissue homogenates from Rattus norvegicus (Rat) samples.

This ELISA kit offers a wide detection range of 9.38 ng/mL to 600 ng/mL and a sensitivity of 2.34 ng/mL, enabling precise and accurate quantification of APOA4 in your samples. The assay time is short, ranging from 1 to 5 hours, and requires only a small sample volume of 50-100ul.

The assay principle is a sandwich method, where the APOA4 in the sample is captured by a coated antibody and detected by a biotinylated detection antibody, followed by a streptavidin-HRP conjugate, and finally substrate solution. The signal is detected at a wavelength of 450 nm.

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This kit is suitable for research in various areas and is particularly useful for studies involving cancer and metabolism research. The Rat Apolipoprotein A-IV (APOA4) ELISA kit provides reliable and consistent results for your experiments.

Target Details

Apoliprotein (apo) A-IV gene contains 3 exons separated by two introns. A sequence polymorphism has been identified in the 3 UTR of the third exon. The primary translation product is a 396-residue preprotein which after proteolytic processing is secreted its primary site of synthesis, the intestine, in association with chylomicron particles. Although its precise function is not known, apo A-IV is a potent activator of lecithin-cholesterol acyltransferase in vitro.

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 APOA4 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)
1:200	Average %	93
1.200	Range %	87-97
1:400	Average %	101
1.400	Range %	97-105
1:800	Average %	92
1.000	Range %	88-96
1:1600	Average %	95
1.1000	Range %	91-101

Recovery

The recovery of rat APOA4 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)	94	89-98
EDTA plasma (n=4)	89	83-94

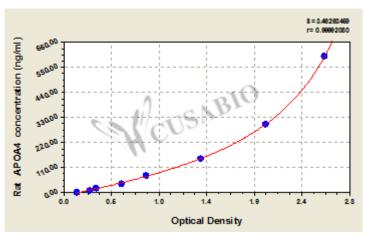
Typical

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 Corrected

600 2.567 2.615 2.591 2.454 300 1.934 2.078 2.006 1.869 150 1.324 1.397 1.361 1.224 75 0.831 0.822 0.827 0.690 37.5 0.581 0.574 0.578 0.441 18.75 0.334 0.323 0.329 0.192 9.38 0.261 0.268 0.265 0.128

0 0.136 0.137 0.137

Msds

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