Pig apolipoprotein E (Apo-E) ELISA Kit

Product Code	CSB-E17889p
Abbreviation	APOE
Protein Biological Process 1	Apolipoprotein
Target Name	apolipoprotein E (Apo-E)
Uniprot No.	P18650
Alias	AD2, LDLCQ5, LPG, MGC1571, apolipoprotein E3
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Protein Biological Process 3	Lipid transport
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 ng/mL-2000 ng/mL
Sensitivity	7.81 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	Cardiovascular
Gene Names	APOE
Tag Info	quantitative
Protein Description	Competitive
Description	This Pig APOE ELISA Kit was designed for the quantitative measurement of Pig APOE 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 7.81 ng/mL.
Target Details	Chylomicron remnants and very low density lipoprotein (VLDL) remnants are rapidly removed from the circulation by receptor-mediated endocytosis in the liver. Apolipoprotein E, a main apoprotein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells. ApoE is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. The APOE gene is mapped to chromosome 19 in a cluster with APOC1 and APOC2. Defects in apolipoprotein E result in familial dysbetalipoproteinemia, or type III

hyperlipoproteinemia (HLP III), in which increased plasma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants.

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 pig Apo-E 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 %	96
	Range %	85-105
1:200	Average %	90
	Range %	89-98
1:400	Average %	96
	Range %	82-103
1:800	Average %	97
	Range %	92-99

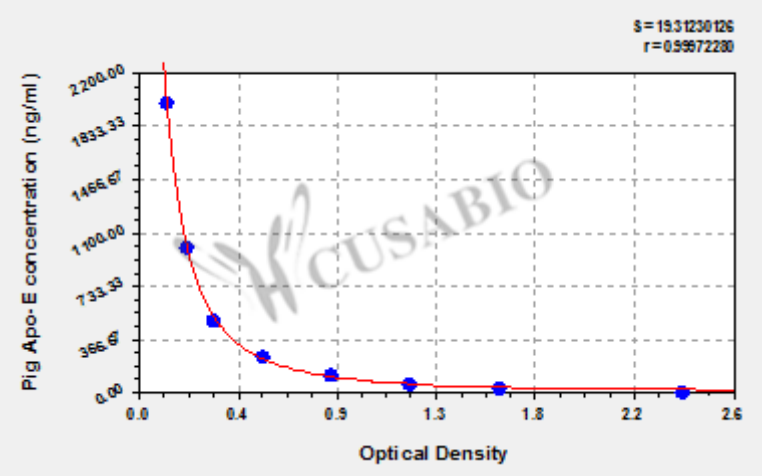
Recovery

The recovery of pig Apo-E 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)	97	92-105
EDTA plasma (n=4)	95	85-100

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	0.131	0.134	0.133	?
1000	0.223	0.226	0.225	?
500	0.335	0.341	0.338	?
250	0.562	0.553	0.558	?
125	0.862	0.860	0.861	?
62.5	1.192	1.214	1.203	?
31.25	1.589	1.607	1.598	?
0	2.417	2.395	2.406	?