



Pig apolipoprotein A1 (Apo-A1) ELISA Kit

Product Code	CSB-E06834p
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	APOA1
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	apolipoprotein A-I
Uniprot No.	P18648
Alias	MGC117399, OTTHUMP00000069346 OTTHUMP00000069347 OTTHUMP00000069348
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Protein Biological Process 3	Cholesterol metabolism
Sample Types	serum, plasma, tissue homogenates
Detection Range	80 µg/mL-2000 µg/mL
Sensitivity	50 µg/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	APOA1
Tag Info	quantitative
Protein Description	Competitive
Description	This Pig APOA1 ELISA Kit was designed for the quantitative measurement of Pig APOA1 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 80 µg/mL-2000 µg/mL and the sensitivity is 50 µg/mL.
Target Details	This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The protein promotes cholesterol efflux from tissues to the liver for excretion, and it is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most



plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<15%

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

Inter-assay Precision (Precision between assays): CV%<15%

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-A1 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)
1:1	Average %	94
	Range %	89-103
1:2	Average %	90
	Range %	85-103
1:4	Average %	93
	Range %	88-100
1:8	Average %	89
	Range %	82-97

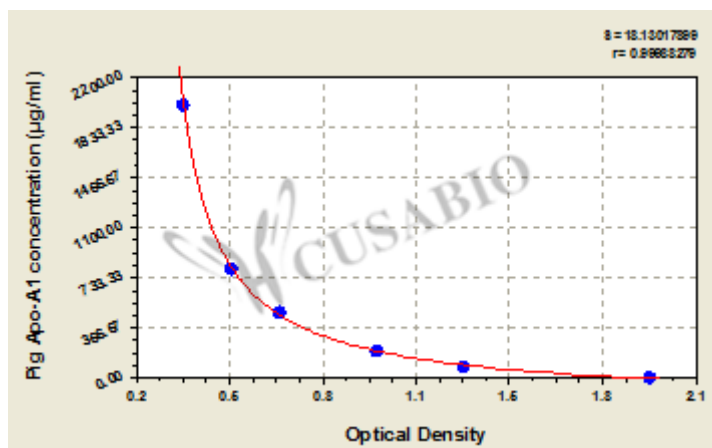
Recovery

The recovery of pig Apo-A1 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)	99	96-104
EDTA plasma (n=4)	90	86-95

Typical

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



µg/ml	OD1	OD2	Average
2000	0.342	0.348	0.345
800	0.533	0.483	0.508
480	0.682	0.657	0.670
200	1.021	0.987	1.004
80	1.267	1.325	1.296
0	1.903	1.954	1.929