Dog Apolipoprotein A-I(APOA1) ELISA kit

Product Code	CSB-EL001913DO
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	APOA1
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	apolipoprotein A-I
Uniprot No.	P02648
Alias	MGC117399, OTTHUMP00000069346|OTTHUMP00000069347|OTTHUMP00000069348
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Protein Biological Process 3	Cholesterol metabolism
Sample Types	serum, plasma, tissue homogenates
Detection Range	28.12 ng/mL-1800 ng/mL
Sensitivity	7 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	APOA1
Tag Info	quantitative
Protein Description	Competitive
Description	This Dog APOA1 ELISA Kit was designed for the quantitative measurement of Dog APOA1 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 28.12 ng/mL-1800 ng/mL and the sensitivity is 7 ng/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%<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 dog APOA1 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)
1:1000	Average %	93
	Range %	89-103
1:2000	Average %	89
	Range %	85-95
1:4000	Average %	95
	Range %	84-103
1:8000	Average %	93
	Range %	83-98

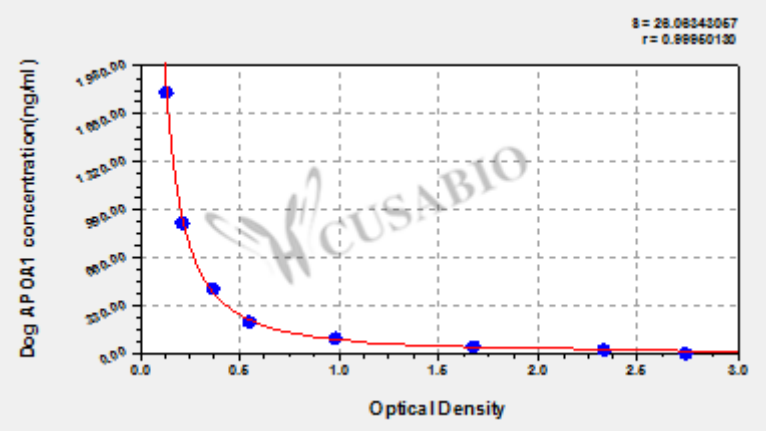
Recovery

The recovery of dog APOA1 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)	93	92-95
EDTA plasma (n=4)	95	91-99

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
1800	0.142	0.145	0.144
900	0.215	0.229	0.222
450	0.382	0.367	0.375
225	0.551	0.558	0.555
112.5	0.973	0.990	0.982
56.25	1.697	1.623	1.660
28.12	2.287	2.328	2.308
0	2.654	2.761	2.708