Human adiponectin,ADP ELISA Kit

Product Code	CSB-E07270h
Abbreviation	ADP
Protein Biological Process 1	Cardiovascular
Target Name	adiponectin, C1Q and collagen domain containing
Uniprot No.	Q15848
Alias	ACDC, ACRP30, ADIPQTL1, ADPN, APM-1, APM1, GBP28, adiponectin, OTTHUMP00000210047|OTTHUMP00000210048|adipocyte, C1Q and collagen domain containing|adipocyte, C1Q and collagen domain-containing|adipo
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates, urine
Detection Range	1.562 ng/mL-100 ng/mL
Sensitivity	1.102 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
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator can provide stable incubation conditions up to 37°C±5°C. Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer Test tubes for dilution
Gene Names	ADIPOQ
Tag Info	quantitative
Protein Description	Sandwich

Component

A micro ELISA plate --- The 96-well plate has been pre-coated with an anti-human ADP antibody. This dismountable microplate can be divided into 12 x 8 strip plates.
Two vials lyophilized standard --- Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.
One vial Biotin-labeled ADP antibody (100 x concentrate) (120 µl/bottle) ---Act as the detection antibody.
One vial HRP-avidin (100 x concentrate) (120 µl/bottle) --- Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic.
One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the high concentration Biotin-antibody to an appropriate working solution.
One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the high concentration HRP-avidin solution to an appropriate solution.
One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration.
One vial Wash Buffer (25 x concentrate) (20 ml/bottle) --- Wash away unbound or free substances.
One vial TMB Substrate (10 ml/bottle) --- Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.
One vial Stop Solution (10 ml/bottle) --- Stop the color reaction. The solution color immediately turns from blue to yellow.
Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation.
An instruction manual

Description

This Human ADP ELISA Kit was designed for the quantitative measurement of Human ADP protein in serum, plasma, cell culture supernates, tissue homogenates, urine. It is a Sandwich ELISA kit, its detection range is 1.562 ng/mL-100 ng/mL and the sensitivity is 1.102 ng/mL.

Target Details

This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded protein circulates in the plasma and is involved with metabolic and hormonal processes.

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.

	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean(ng/ml)	13.215	12.894	13.438	12.897	13.109	12.963
SD	0.024	0.017	0.025	0.055	0.037	0.050
CV(%)	3.64	2.647	3.724	8.562	5.66	7.741

Linearity

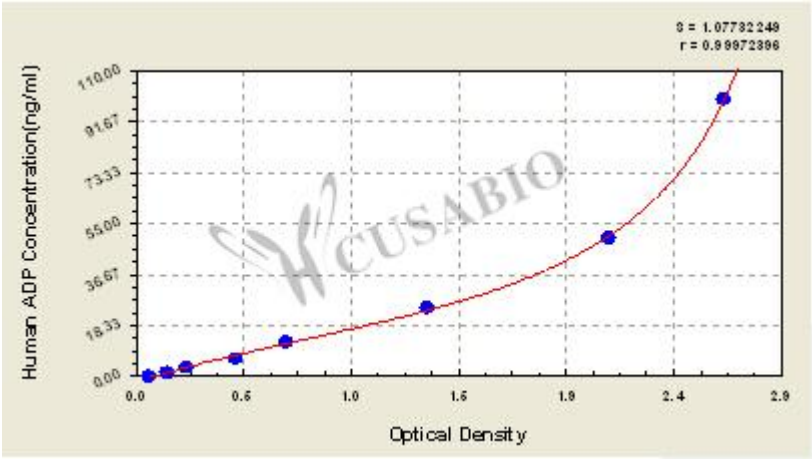
To assess the linearity of the assay, samples were spiked with high concentrations of human ADP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:100	Average %	91
	Range %	85-97
1:200	Average %	97
	Range %	91-103
1:400	Average %	93
	Range %	85-95
1:800	Average %	95
	Range %	90-100

	Sample	Cell Culture Supernates(n=4)
1:1	Average %	97
	Range %	80-100
1:2	Average %	95
	Range %	91-110
1:4	Average %	90
	Range %	85-95
1:8	Average %	96
	Range %	90-100

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	Corrected
0	0.059	0.063	0.061	
1.562	0.142	0.146	0.144	0.083
3.125	0.242	0.220	0.231	0.170
6.25	0.455	0.443	0.449	0.388
12.5	0.667	0.684	0.676	0.615
25	1.358	1.268	1.313	1.252
50	2.157	2.101	2.129	2.068
100	2.550	2.749	2.650	2.589

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E07270h.pdf","filename":"MSDS"}}