Rat Adiponectin/Acrp30 ELISA kit, pink-ONE

Catalog No.	K0331197P
Lot No.	50054
Quantity	96 tests
Storage	4°C
Standard Range	156-10,000 pg/ml

[Important Notice]

- Please read this User Manual carefully prior to performing the assay.
- The reagent preparation method might be different from lot to lot, so please check the lot and follow the instructions given in this manual.
- Do not mix or interchange reagents between different lots.
- The kit is intended for Research Use Only.

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DESCRIPTION

This kit contains all the necessary reagents required for performing quantitative measurement of the protein from samples including serum, plasma, culture medium or other biological fluids in a sandwich ELISA format.

KIT COMPONENTS

Component	Amount
Pre-Coated 96 well ELISA microplate	1 Plate
Biotinylated Affinity Purified Detection Antibody (Lyophilized)	2 EA
Recombinant Standard Protein (Lyophilized)	2 EA
Streptavidin-HRP Conjugate (0.6 ml)	1 EA
Assay Diluent (50 ml) : PBST	1 EA
Assay Dileunt G (10 ml) : N/A	N/A
TMB or pink-ONE Solution (10 ml)	1 EA
Stop Solution (10 ml)	1 EA
Wash Buffer Concentrate (20X, 50 ml) to make 1 liter	1 EA
Plate Sealer	3 EA

STORAGE AND STABILITY

- Store kit at 4°C immediately upon receipt.
- The shelf life of the kit is one year from date of shipment.
- Expiry of the kit is stated on labels.

STANDARD RANGE

Standard Range

156-10,000 pg/ml

SAMPLE PREPARATION

- Store all samples on ice after preparation and use immediately or aliquot and store at -80°C.
- Avoid repeated freeze-thaw cycles.

1) Cell culture supernatants

Centrifuge cell culture media at 1,500 rpm for 10 minutes at 4°C to remove particulates.

Immediately aliquot supernatants and store at -80°C.

2) Serum

Samples should be collected into a serum separator tube. After clot formation, centrifuge samples at 3,000 rpm for 10 minutes at 4°C to remove clots. Immediately aliquot supernatants and store at -80°C.

3) Plasma

Collect plasma using anti-coagulant (citrate, EDTA or heparin). Centrifuge samples at 3,000 rpm for 15 minutes at 4°C. Immediately aliquot supernatants and store at -80°C.

REAGENT PREPARATION

- Do not mix or substitute Assay Diluent from other kit lots.
- All reagents should be prepared right before use, and diluted solution should be used immediately.

1) Standard Protein

Reconstitute 1 vial of Standard protein in sterile water. Then dilute in Assay Diluent at 1:2 serial dilutions as follows. The standard diluent buffer serves as zero standard.

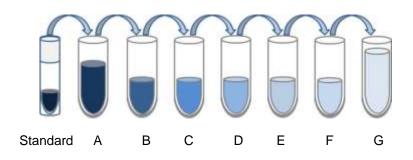


Table 1.

Step	Dilution Method	Concentration
Step A	0.01 ml of Standard + 0.99 ml of Assay Diluent	10,000 pg/ml
Step B	0.5 ml of Step A + 0.5 ml of Assay Diluent	5,000 pg/ml
Step C	0.5 ml of Step B + 0.5 ml of Assay Diluent	2,500 pg/ml
Step D	0.5 ml of Step C + 0.5 ml of Assay Diluent	1,250 pg/ml
Step E	0.5 ml of Step D + 0.5 ml of Assay Diluent	625 pg/ml
Step F	0.5 ml of Step E + 0.5 ml of Assay Diluent	312.5 pg/ml
Step G	0.5 ml of Step F + 0.5 ml of Assay Diluent	156.25 pg/ml

2) Detection Antibody

Reconstitute 1 vial of Detection Antibody in 0.25 ml sterile water, and dilute 1:20 in Assay Diluent.

NOTE: Reconstituted solutions are stable at -20°C for up to 1 month. Do not repeat freezing and thawing.

3) Streptavidin-HRP

Dilute the Streptavidin-HRP conjugate 1:20 in Assay Diluent.

4) Wash Buffer

Dilute the 20X Wash Buffer Concentrate in 1 L distilled water.

ELISA PROCEDURE

 Washing: Add 200 ul of Washing Solution to each well. Aspirate the wells to remove liquid and wash the plate 3 times using 300 ul of Washing Solution per well. After the last wash, invert plate to remove residual solution and blot on paper towel.

NOTE: Do not let the well dry completely and go immediately to the next step.

- 2) **Reaction:** Add 100 ul of standard, blank and sample to each well in duplicate. Cover the plate with the Plate Sealer. Incubate at room temperature for at least 2 hours.
- 3) Washing: Aspirate the wells to remove liquid and wash the plate 4 times as in step 1.
 NOTE: Vigorous washing of the plate after incubation steps is essential to obtaining low background values.
- 4) **Detection:** Add 100 ul of the diluted detection antibody per well. Then cover the plate with the Plate Sealer. Incubate at room temperature for 2 hours.
- 5) Washing: Aspirate and wash plate 4 times as in step 1.
- 6) **Conjugates:** Add 100 ul of the diluted Streptavidin-HRP per well. Cover the plate with the Plate Sealer. Incubate 30 minutes at room temperature (or at 37°C for 30 minutes).
- 7) Washing: Aspirate and wash plate 4 times as in step 1.
- 8) **Color Development:** Add 100 ul of TMB or pink-ONE TMB solution to each well. Incubate at room temperature for a proper color development. Add 100 ul of the stop solution to each well.

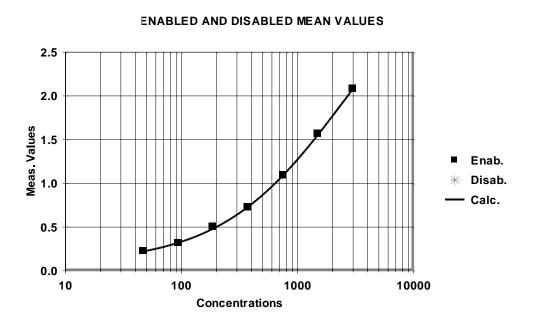
NOTE: Please be aware that the color may develop more quickly or more slowly than the recommended incubation time depending on the localized room temperature. Please monitor the color development to optimize the incubation time.

NOTE: Stop Solution (H_2SO_4) is a caustic material. Eye, hand, face and clothing protection should be worn when handling this reagent.

9) Reading: Using a microplate reader, measure observance at 450 nm.

CALCULATION OF RESULTS

Create a standard curve by reducing the data using ELISA reader's computer software capable of generating Standard curve-fit. A standard curve should be generated for each set of samples.



Rat Adiponectin/Acrp30 (pg/ml)

(15 minutes color development)

CROSS REACTIVITY

To define the specificity of this ELISA, several proteins were tested for cross reactivity at 50 ng/ml.

		NI / A
Human	•	NI/Δ
Human	•	N/A

- Mouse : N/A
- Rat: N/A
- Others : N/A

TROUBLESHOOTING

agents not fresh or contaminated cubation time not long enough cubation temperature too low op solution not added adequate standard dilution adequate incubation time of tection antibody, Streptavidin- RP or Substrate adequate washing accurate pipetting adequate mixing of samples	Ensure proper preparation of reagents. Ensure sufficient incubation times. Reagent solutions should be at RT before use. Addition of stop solution Ensure proper dilution of Standard. Decrease incubation time. Increase the stringency of washes. Ensure accurate pipetting of volume and avoid air bubbles.		
cubation temperature too low op solution not added adequate standard dilution adequate incubation time of tection antibody, Streptavidin- RP or Substrate adequate washing accurate pipetting	Reagent solutions should be at RT before use. Addition of stop solution Ensure proper dilution of Standard. Decrease incubation time. Increase the stringency of washes. Ensure accurate pipetting of volume and avoid air bubbles.		
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tection antibody, Streptavidin- RP or Substrate adequate washing accurate pipetting	Increase the stringency of washes. Ensure accurate pipetting of volume and avoid air bubbles.		
accurate pipetting	Ensure accurate pipetting of volume and avoid air bubbles.		
	and avoid air bubbles.		
adequate mixing of samples	Mix samples thoroughly before		
	Mix samples thoroughly before pipetting		
gh particulate matter of samples	Mix samples thoroughly and remove particulates by centrifugation.		
oss-well contamination	Use fresh plate sealers or pipette tips		
ntamination of reagents or mples	Use a clean container before addition into wells.		
sufficient plates washing	Ensure proper washing of each well		
o much concentrated detection tibody and Streptavidin-HRP	Ensure proper dilution of detection antibody or conjugate and incubation time.		
bstrate solution or stop solution not fresh	Use fresh substrate and stop solution.		
ate left too long before reading the plate reader	Read on the plate reader right after the experiment.		
cubation temperature is too high	Decrease incubation temperature of substrate.		
mples contain no or below tectable levels of analyte or mples contain analyte	If samples are below detectable levels, higher sample volume. If samples are higher than detectable levels, it may require dilution and reanalysis.		
	o much concentrated detection tibody and Streptavidin-HRP bstrate solution or stop solution not fresh ite left too long before reading the plate reader cubation temperature is too high mples contain no or below		

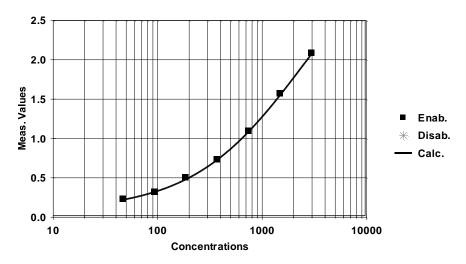
PLATE LAYOUT

	1	2	3	4	5	6	7	8	9	10	11	12
Α												
В												
С												
D												
Е												
F												
G												
Н												

CERTIFICATE OF ANALYSIS

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Storage	4°C
Standard Range	156-10,000 pg/ml

ENABLED AND DISABLED MEAN VALUES



Rat Adiponectin/Acrp30 (pg/ml)

(15 minutes color development)

Layout map for calibrators sheet

		OD (450nm)		
А	Cal_1	10000	pg/ml	N/A
В	Cal_2	5000	pg/ml	N/A
С	Cal_3	2500	pg/ml	N/A
D	Cal_4	1250	pg/ml	N/A
E	Cal_5	625	pg/ml	N/A
F	Cal_6	312.5	pg/ml	N/A
G	Cal_7	156.25	pg/ml	N/A
Н	Black	0	pg/ml	N/A