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Datasheet for ABIN6976264 Acetyl-CoA Carboxylase alpha ELISA Kit

1 Image

1 Publication



Overview

Sensitivity:

Quantity:	96 tests
Target:	Acetyl-CoA Carboxylase alpha (ACACA)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	9.38 pg/mL - 600 pg/mL
Minimum Detection Limit:	9.38 pg/mL
Application:	ELISA
Product Details	
Purpose:	For the quantitative determination of human acetyl-CoA carboxylase 1 (ACACA) concentrations
Purpose:	For the quantitative determination of human acetyl-CoA carboxylase 1 (ACACA) concentrations in serum, plasma, tissue homogenates, cell lysates.
Purpose: Sample Type:	
·	in serum, plasma, tissue homogenates, cell lysates.
Sample Type:	in serum, plasma, tissue homogenates, cell lysates. Cell Lysate, Plasma, Serum, Tissue Homogenate

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reaction may still exist.

2.34 pg/mL

significant cross-reactivity or interference between human ACACA and analogues was

cross-reactivity detection between human ACACA and all the analogues, therefore, cross

observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the

Product Details

Components:

- Assay plate
- Standard
- HRP-avidin (100 x concentrate)
- Biotin-antibody (100 x concentrate)
- Sample Diluent
- HRP-avidin Diluent
- Biotin-antibody Diluent
- Wash Buffer (25 x concentrate)
- TMB Substrate
- Stop Solution
- Adhesive Strip

Target Details

Target:	Acetyl-CoA Carboxylase alpha (ACACA)
Alternative Name:	acetyl-Coenzyme A carboxylase alpha (ACACA Products)
Background:	Abbreviation: ACACA Alias: ACAC, ACC, ACC1, ACCA, ACC-alpha acetyl-CoA carboxylase 1 acetyl-CoA carboxylase- alpha
UniProt:	Q13085
Pathways:	AMPK Signaling, Ribonucleoside Biosynthetic Process, Warburg Effect

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Sample Volume:	100 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	1. Prepare reagents, samples and standards as instructed.
	2. Add 100 μ L standard or sample to each well. Incubate 2 hours at 37 °C.
	3. Remove the liquid of each well, don't wash.
	4. Add 100 μ L Biotin-antibody (1x) to each well. Incubate 1 hour at 37 °C.
	5. Aspirate and wash 3 times.
	6. Add 100 μ L HRP-avidin (1x) to each well. Incubate 1 hour at 37 °C
	7. Aspirate and wash 5 times.
	8. Add 90 μL of TMB Substrate to each well. Incubate for 15-30 minutes at 37 °C. Protect from light.

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	9. Add 50 μL Stop Solution to each well. Read at 450 nm within 5 minutes.
Reagent Preparation:	 Biotin-antibody (1x) - Centrifuge the vial before opening. Biotin-antibody requires a 100-fold dilution. A suggested 100-fold dilution is 10 μL of Biotin-antibody + 990 μL of Biotin-antibody Diluent.
	 HRP-avidin (1x) - Centrifuge the vial before opening. HRP-avidin requires a 100-fold dilution. A suggested 100-fold dilution is 10 µL of HRP-avidin + 990 µL of HRP-avidin Diluent. Wash Buffer (1x) - If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20 mL of Wash Buffer Concentrate (25 x) into deionized or distilled water to prepare 500 mL of Wash Buffer (1 x). Standard Centrifuge the standard vial at 6000-10000rpm for 30s. Reconstitute the Standard with 1.0 mL of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution of 600 pg/mL. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions. Pipette 250 µL of Sample Diluent into each tube (S0-S6). Use the stock solution to produce a 2-fold dilution series (below). Mix each tube thoroughly before the next transfer. The undiluted Standard serves as the high standard (600 pg/mL). Sample Diluent serves as the zero standard (0 pg/mL).
	 Note: Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit. Bring all reagents to room temperature (18-25 °C) before use for 30 min. Prepare fresh standard for each assay. Use within 4 hours and discard after use. Making serial dilution in the wells directly is not permitted. Please carefully reconstitute Standards according to the instruction, and avoid foaming and mix gently until the crystals have completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10 μL for once pipetting. Distilled water is recommended to be used to make the preparation for reagents or samples. Contaminated water or container for reagent preparation will influence the detection result.
Sample Preparation:	 It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates. If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit. If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a possibility of causing a deviation due to the introduced chemical substance. The recommended dilution factor is for reference only. Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular

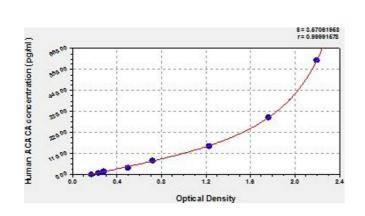
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	experiment has to be determined. Samples should then be diluted with PBS (pH = $7.0-7.2$).
	Note:
	Serum and plasma samples require a 10-fold dilution into Sample Diluent. The suggested 10-
	fold dilution can be achieved by adding 25 μL sample to 225 μL of Sample Diluent. The
	recommended dilution factor is for reference only. The optimal dilution factor should be
	determined by users according to their particular experiments.
Assay 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.
Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C
Storage Comment:	Unopened kit Store at 2 - 8°C. Do not use the kit beyond the expiration date. May be stored for
	up to 1 month at 2 - 8°C. Coated assay Try to keep it in a sealed aluminum foil bag, plate and
	avoid the damp. Standard May be stored for up to 1 month at 2 - 8° C. If Biotin-antibody don't
	make recent use, better keep it store at HRP-avidin -20°C. Biotin-antibody Diluent Opened kit
	HRP-avidin Diluent Sample May be stored for up to 1 month at 2 - 8°C. Diluent Wash Buffer
	TMB Substrate Stop Solution *Provided this is within the expiration date of the kit.
Expiry Date:	6 months
Publications	
Product cited in:	Chen, Li, Wang, Jin, Zheng, Lin, He, Zhang, Ma, Mei, Yu: "MiR-29b-3p promotes chondrocyte
	apoptosis and facilitates the occurrence and development of osteoarthritis by targeting PGRN.
	in: Journal of cellular and molecular medicine, Vol. 21, Issue 12, pp. 3347-3359, (2018) (
	PubMed).
	Yang, Kang, Xing, Dou, Kang, Li, Quan, Dong: "Effect of microRNA-145 on IL-1β-induced cartilag
	degradation in human chondrocytes." in: FEBS letters , Vol. 588, Issue 14, pp. 2344-52, (2014) (
	PubMed).
	Zheng, Zhong, Qin, Chen, Wu, Zeng, Ye, Li, Yuan, Yao, Chen: "Advanced oxidation protein
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products induce inflammatory response in fibroblast-like synoviocytes through NADPH oxidase -dependent activation of NF-κB." in: **Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology**, Vol. 32, Issue 4, pp. 972-85, (2013) (PubMed).

Franchi, Torricelli, Giavaresi, Fini: "Role of moderate exercising on Achilles tendon collagen crimping patterns and proteoglycans." in: **Connective tissue research**, Vol. 54, Issue 4-5, pp. 267-74, (2013) (PubMed).





ELISA

Image 1. Typical Standard Curve

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