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Datasheet for ABIN6959487 SIRT1 ELISA Kit

1 Image

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Overview

Quantity:	96 tests
Target:	SIRT1
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.31 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.31 ng/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SIRT1 in
	rat tissue homogenates, cell lysates, cell culture supernates.
Sample Type:	Cell Culture Supernatant, Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Sirtuin 1 (SIRT1)
Sensitivity:	0.125 ng/mL
Components:	Pre-coated, ready to use 96-well strip plate, flat buttom
	Plate sealer for 96 wells
	Reference Standard
	Standard Diluent
	Detection Reagent A

• Detection Reagent A

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- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

Target Details

Target:	SIRT1
Abstract:	SIRT1 Products
Pathways:	MAPK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Carbohydrate Homeostasis, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus, Negative Regulation of intrinsic apoptotic Signaling
Application Details	
Comment:	Information on standard material: The standard might be recombinant protein or natural protein, that will depend on the specific kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin 300 in the standard as preservative.
	Information on reagents: The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies: The provided antibodies and their host vary in different kits.
Sample Volume:	100 μL
Assay Time:	3 h
Plate:	Pre-coated

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Application Details

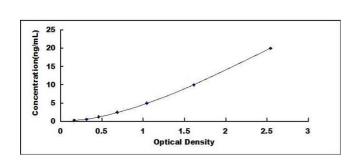
Sample Preparation:	 It is recommended to use fresh samples without long storage, otherwise protein degradation
	and mix gently until the crystals are completely dissolved. 6. Contaminated water or container for reagent preparation will influence the detection result.
	once. 5. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature
	4. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only
	are calibrated. It is recommended to suck more than 10μ L for one pipetting.
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors
	3. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	 Prepare standards within 15 minutes before assay. Please do not dissolve the reagents at 37 °C directly.
	1. Making serial dilution in the wells directly is not permitted.
	Note:
	dump the residual solution into the vial again.
	or distilled water to prepare 600 mL of Wash Solution (1x). 5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not
	4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
	respectively.
	gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before use. Dilute them to the working concentration 100-fold with Assay Diluent A and B,
	Reagent A with 150 μ L of Reagent Diluent, keep for 10 minutes at room temperature, shake
	3. Detection Reagent A and Detection Reagent B - If lyophilized reconstitute the Detection
	0.625 ng/mL, 0.312 ng/mL, and the last microcentrifuge tube with Standard Diluent is the blank as 0 ng/mL.
	diluted standard such as 20 ng/mL, 10 ng/mL, 5 ng/mL, 2.5 ng/mL, 1.25 ng/mL,
	double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of
	room temperature, shake gently (not to foam). The concentration of the standard in the stock solution is 20 ng/mL. Prepare 7 tubes containing 0.25 mL Standard Diluent and produce a
	2. Standard - Reconstitute the Standard with 0.5 mL of Standard Diluent, keep for 10 minutes at
	experiment, and leave the remaining strips and reagents in required condition.
	will not be used up in one time, please only take out strips and reagents for present
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit
	8. Add 50µL Stop Solution. Read at 450nm immediately.
	7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
	6. Aspirate and wash 5 times,
	5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
	4. Aspirate and wash 3 times,
	 Add 100µL standard or sample to each well. Incubate 1 hours at 37 °C, Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37 °C,
Protocol:	1. Prepare all reagents, samples and standards,

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Product cited in:	Lv, Feng, Ai, Hou, Wang, Zou, Cheng, Ge, Cui, Yang: "A Practical and High-Affinity Fluorescent
Publications	
Expiry Date:	6 months
	2. For opened kits: the remaining reagents must be stored according to the above storage conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper.
	at -20 °C upon receipt, while the other reagents should be stored at 4 °C.
Storage Comment:	1. For unopened kit: All reagents should be stored according to the labels on the vials. The Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be store
Storage:	4 °C/-20 °C
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.
Handling	
Restrictions:	For Research Use only
	Intra-Assay: CV < 10% Inter-Assay: CV < 12%
	CV(%) = SD/meanX100
	target were tested on 3 different plates, 8 replicates in each plate.
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of
	target were tested 20 times on one plate, respectively.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	• 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 experiment has to be determined. Samples should then be diluted with PBS (pH =7.0-7.2).
	possibilityof causing a deviation due to the introduced chemical substance. The recommended dilution factor is for reference only.
	 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
	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 (\leq 1 month) or -80 °C (\leq 2 months). Dependent fraction therefore be stored fraction therein the store of the store o

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Images



ELISA

Image 1. Typical standard curve

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