

Datasheet for ABIN5658808 **SIRT1 CLIA Kit**



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Overview

Quantity:	96 tests
Target:	SIRT1
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	312.5 pg/mL - 20000 pg/mL
Minimum Detection Limit:	312.5 pg/mL
Application:	ELISA

Product Details

Sample Type:	Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Chemiluminescent
Specificity:	This assay has high sensitivity and excellent specificity for detection of Sirtuin 1 (SIRT1). No significant cross-reactivity or interference between Sirtuin 1 (SIRT1) and analogues was observed.
Sensitivity:	10.52 pg/mL

Target Details

Target:	SIRT1
Alternative Name:	Sirtuin 1 (SIRT1 Products)

Target Details

Background: Gene Name: Sirtuin 1
Gene Aliases: SIR2L1, Silent Mating Type Information Regulation 2 Homolog 1, NAD-Dependent Deacetylase Sirtuin-1, SIR2-like protein 1, SirtT1 75 kDa fragment

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: The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

Assay Time: 2 - 3 h

Plate: Pre-coated

Protocol: The microplate provided in this kit has been pre-coated with an antibody specific to Sirtuin 1 (SIRT1). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Sirtuin 1 (SIRT1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Sirtuin 1 (SIRT1) level in the sample or standard.,

Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Sirtuin 1 (SIRT1) were tested 20 times on one plate, respectively
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Sirtuin 1 (SIRT1) were tested on 3 different plates, 8 replicates in each plate. CV(%) = $\frac{SD}{mean} \times 100$
Intra-Assay: CV<10%
Inter-Assay: CV<12%

Restrictions: For Research Use only

Handling

Handling Advice:	Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.
Storage:	4 °C,-20 °C
Storage Comment:	-20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.
Expiry Date:	4-8 months