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## Datasheet for ABIN6385193 SIRT1 IQ-ELISA Kit



Overview		
Quantity:	96 tests	
Target:	SIRT1	
Reactivity:	Human	
Method Type:	Sandwich ELISA	
Application:	ELISA	
Product Details		
Purpose:	Human Immunoquantitative (PCR-Based) Sirtuin 1 ELISA Kit for cell culture supernatants, plasma, and serum samples.	
Sample Type:	Cell Culture Supernatant, Plasma, Serum	
Analytical Method:	Semi-Quantitative	
Detection Method:	qPCR	
Sensitivity:	0.123 ng/mL	
Characteristics:	IQ-ELISAs employ specific capture antibodies coated on a 96-well PCR plate. Standards and samples are pipetted into the wells, the target protein in the standards and samples binds to	

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antigen in each well.

the immobilized antibody. The wells are washed and the detection affinity reagent is added to the wells where it binds to any captured antigen. The wells are washed, and primers and PCR

master mix are added to each well. The plate is placed into a real time PCR instrument for

cycling and measurement of DNA amplification. The cycle number where amplification is

detected is proportional to the amount of affinity detection reagent that bound to captured

#### Product Details

<ul> <li>Sirtuin 1 Microplate (Item A): 96 well PCR plate coated with anti-Human Sirtuin 1</li> <li>Wash Buffer I Concentrate (20x) (Item B): 25 ml of 20x concentrated solution</li> <li>Standards (Item C): 2 vials of recombinant Human Sirtuin 1</li> <li>Assay Diluent A (Item D): 30 ml diluent buffer, 0.09% sodium azide as preservative. For Standard/Sample (serum/plasma) diluent</li> <li>Assay Diluent B (Item E): 15 ml of 5x concentrated buffer. For Standard/Sample (cell culture medium/urine) diluent</li> <li>Detection Affinity Reagent for Sirtuin 1 (Item F): 2 vials of a 4x concentrated solution of anti- Human Sirtuin 1 affinity reagent</li> <li>IQELISA Detection Reagent (Item G): 1.4ml of a 10x concentrated stock</li> <li>Primer Solution (Item I): 1.7 ml vial</li> <li>PCR Master Mix (Item J): 1.2 ml vial of 10x concentrated buffer</li> </ul>
<ul> <li>Final Wash Buffer (Item L): 10ml vial of 10x concentrated buffer</li> <li>Real-time PCR instrument, Bio-Rad recommended</li> <li>Precision pipettes to deliver 2 µL to 1 mL volumes</li> <li>Adjustable 1-25 mL pipettes for reagent preparation</li> <li>100 mL and 1 liter graduated cylinders</li> <li>Absorbent paper</li> <li>Distilled or deionized water</li> <li>Log-log graph paper or computer and software for data analysis</li> <li>Tubes to prepare standard or sample dilutions</li> <li>Heating block or water bath capable of 80°C</li> </ul>

#### Target Details

Target:	SIRT1
Alternative Name:	Sirtuin 1 (SIRT1 Products)
Gene ID:	23411
UniProt:	Q96EB6
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

Application Notes:

The Immuno-Quantitative ELISA (IQELISA) kits are an innovative assay platform that combines

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Application Details	
	the specificity and ease of use of an ELISA with the sensitivity of real-time PCR. This results in an assay that is simultaneously familiar and cutting edge and enables the use of only 1/10th the sample volume while also providing 10x more sensitivity than a traditional ELISA.
Comment:	The Immuno-Quantitative ELISA (IQELISA <sup>™</sup> ) kits are an innovative assay platform that combines the specificity and ease of use of an ELISA with the sensitivity of real-time PCR. Also called immuno-PCR, this detection platform results in an assay that is simultaneously familiar and cutting edge. Compared to traditional ELISA, IQELISA <sup>™</sup> enables the use of only 1/10th the sample volume while also providing 10x more sensitivity.
Sample Volume:	25 µL
Plate:	Pre-coated
Protocol:	<ol> <li>Prepare all reagents, samples and standards as instructed</li> <li>Add 25 μL standard or sample to each well. Incubate for 2.5 hours at room temperature or overnight at 4°C</li> <li>Add 25 μL detection affinity reagent to each well. Incubate 1 hour at room temperature</li> <li>Add 25μL of IQELISA Detection Reagent to each well. Incubate 1 hour</li> <li>Add 15μL Primer solution 10μL of PCR master mix to each well</li> <li>Run real-time PCR</li> </ol>
Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	May be stored for up to 6 months at 2° to 8°C from the date of shipment. Standard (recombinant protein) should be stored at -20°C or -80°C (recommended at -80°C) after reconstitution. Opened PCR plate or reagents may be stored for up to 1 month at 2° to 8°C. Note: the kit can be used within one year if the whole kit is stored at -20°C. Avoid repeated freeze-thaw cycles.
Expiry Date:	6 months