

Human Sirtuin 4 (SIRT4) ELISA Kit | SIRT4 elisa kit

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CATALOG #
AAA186724

REACTIVITY
Human

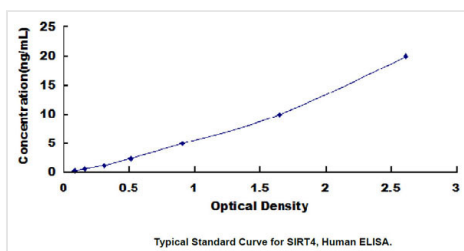
PRODUCT SYNONYMS

Sirtuin 4 (SIRT4); Human Sirtuin 4 (SIRT4) ELISA Kit; SIR2L4; Silent Mating Type Information Regulation 2 Homolog 4; SIR2-like protein 4; NAD-dependent protein deacetylase sirtuin-4; SIRT4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SIRT4. No significant cross-reactivity or interference between SIRT4 and analogues was observed.
Sequence Length	314
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.117ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SIRT4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SIRT4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SIRT4 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SIRT4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SIRT4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain SIRT4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of SIRT4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	164653931
Molecular Weight	35,436 Da
NCBI Official Full Name	sirtuin 4
UniProt Protein Name	NAD-dependent protein lipoamidase sirtuin-4, mitochondrial
UniProt Gene Name	SIRT4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/sirtuin-4-sirt4/186724>