

# Recombinant human SIRT6 protein ab104030

[2 Images](#)

### Description

<b>Product name</b>	Recombinant human SIRT6 protein
<b>Biological activity</b>	The Specific activity of ab104030 was determined to be 120 RLU/min/ng.
<b>Purity</b>	> 90 % SDS-PAGE. Purity was determined to be >90% by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<b><u>Q8N6T7</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	IFDPPEELER KVVWELARLVW QSSSVVFHTG AGISTASGIP DFRGPHGVWT MEERGLAPKF DTTFESARPT QTHMALVQLE RVGLLRFLVS QNVDGLHVRS GFPRDKLAEL HGNMFVEECA KCKTQYVRDT VVGTMGLKAT GRLCTVAKAR GLRACRGELR DTILDWEDSL PDRDLALADE ASRNADLSIT LGTSLQIRPS GNLPLATKRR GGRLVIVNLQ PTKHDRHADL RIHGYVDEVM TRLMKHLGLE IPAWDGPRVL ERALPPLPRP PTPKLEPKEE SPTRINGSIP AGPKQEPCAQ HNGSEPA SPK RERPTSPAPH RPPKRVKAKA VPS
<b>Predicted molecular weight</b>	39 kDa including tags
<b>Amino acids</b>	23 to 355
<b>Tags</b>	His tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab104030** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Functional Studies
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**Form** Liquid

## Preparation and Storage

### Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 7.00

Preservative: 1.02% Imidazole

Constituents: 0.00174% PMSF, 0.82% Sodium phosphate, 0.00385% DTT, 25% Glycerol (glycerin, glycerine), 1.74% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

### Function

NAD-dependent protein deacetylase. Has deacetylase activity towards histone H3K9Ac and H3K56Ac. Modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. Deacetylates histone H3K9Ac at NF-kappa-B target promoters and may down-regulate the expression of a subset of NF-kappa-B target genes. Acts as a corepressor of the transcription factor HIF1A to control the expression of multiple glycolytic genes to regulate glucose homeostasis. Required for genomic stability. Regulates the production of TNF protein. Has a role in the regulation of life span (By similarity). Deacetylation of nucleosomes interferes with RELA binding to target DNA. May be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance. Required for genomic stability. Required for normal IGF1 serum levels and normal glucose homeostasis. Modulates cellular senescence and apoptosis. On DNA damage, promotes DNA end resection via deacetylation of RBBP8. Has very weak deacetylase activity and can bind NAD(+) in the absence of acetylated substrate.

### Sequence similarities

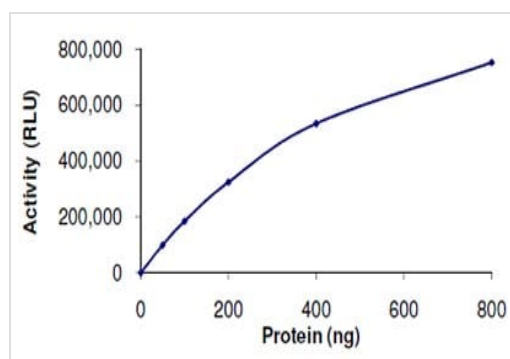
Belongs to the sirtuin family. Class IV subfamily.

Contains 1 deacetylase sirtuin-type domain.

### Cellular localization

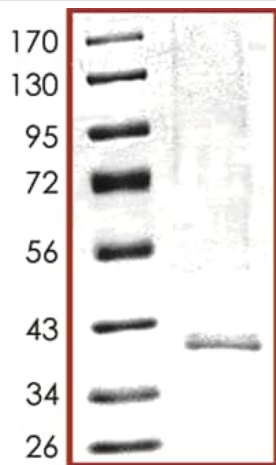
Nucleus, nucleoplasm. Predominantly nuclear. Associated with telomeric heterochromatin regions.

## Images



The Specific activity of ab104030 was determined to be 120 RLU/min/ng.

Functional Studies - Recombinant human SIRT6 protein (ab104030)



SDS-PAGE showing ab104030 at approximately 39kDa.

SDS-PAGE - Recombinant human SIRT6 protein  
(ab104030)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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