

Product datasheet

Recombinant human SIRT6 protein ab104030

2 Images

Overview

Product name	Recombinant human SIRT6 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Baculovirus infected Sf9 cells

Amino Acid Sequence

Accession	Q8N6T7
Species	Human
Molecular weight	39 kDa including tags
Amino acids	23 to 355
Tags	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.

Biological activity	The Specific activity of ab104030 was determined to be 120 RLU/min/ng.
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Applications	SDS-PAGE Functional Studies
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Purity	> 90 % SDS-PAGE. Purity was determined to be >90% by densitometry.
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Form	Liquid
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Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. Preservative: 150mM Imidazole Constituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.25mM DTT,
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0.1mM PMSF, pH 7.0

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 HIF 1A 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

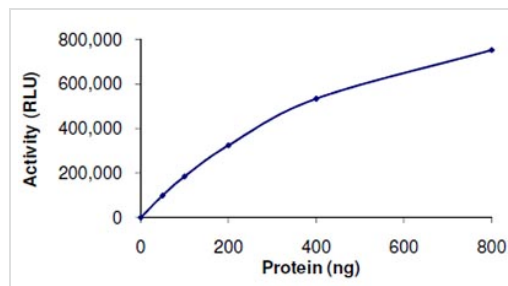
Belongs to the sirtuin family. Class IV subfamily.

Contains 1 deacetylase sirtuin-type domain.

Cellular localization

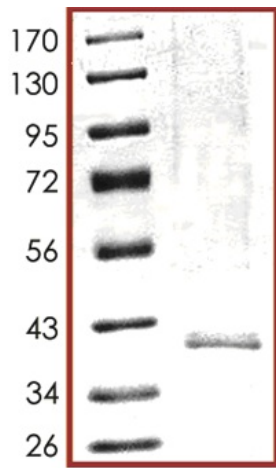
Nucleus, nucleoplasm. Predominantly nuclear. Associated with telomeric heterochromatin regions.

Images



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

Functional Studies - SIRT6 protein (Active)
(ab104030)



SDS-PAGE showing ab104030 at approximately 39kDa.

SDS-PAGE - SIRT6 protein (Active) (ab104030)

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