




Product datasheet

Anti-SIRT6 antibody ab62739

★★★★☆ [14 Abreviews](#) [69 References](#) [3 Images](#)

Overview

Product name	Anti-SIRT6 antibody
Description	Rabbit polyclonal to SIRT6
Host species	Rabbit
Tested applications	Suitable for: WB, ICC
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Cow 
Immunogen	Synthetic peptide: GLPEIFDPPEELERK conjugated to KLH by a Cysteine residue linker, corresponding to N terminal amino acids 19-33 of Human SIRT6 <div>  Run BLAST with  Run BLAST with </div>
Positive control	ICC: HeLa cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab62739 in the following tested applications.

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

Application	Abreviews	Notes
WB	★★★★☆ (8)	Use at an assay dependent concentration. Detects a band of approximately 37 kDa (predicted molecular weight: 37 kDa). 2-4 ug/mL is recommended using whole extracts of mouse 3T3 cells. Use at 1-2 ug/mL with whole extracts of human U87 cells. Detects a band of approximately 37 kDa (predicted molecular weight: 39 (human), 37 mouse kDa (mouse)).
ICC		Use a concentration of 2.5 µg/ml.

Target

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.

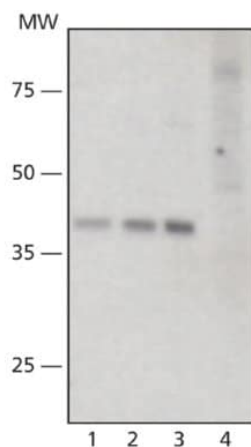
Sequence similarities

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



Western blot - Anti-SIRT6 antibody (ab62739)

Lane 1 : Anti-SIRT6 antibody (ab62739) at 0.5 µg/ml

Lane 2 : Anti-SIRT6 antibody (ab62739) at 1 µg/ml

Lanes 3-4 : Anti-SIRT6 antibody (ab62739) at 2 µg/ml

Lanes 1-3 : Mouse 3T3 whole cell extract

Lane 4 : Mouse 3T3 whole cell extract with immunizing peptide

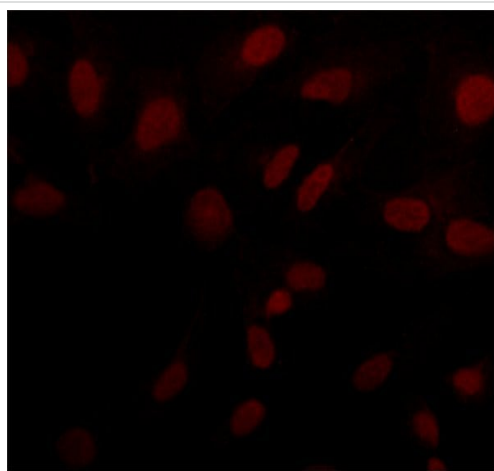
Secondary

All lanes : Goat Anti-Rabbit IgG,

Developed using the ECL technique.

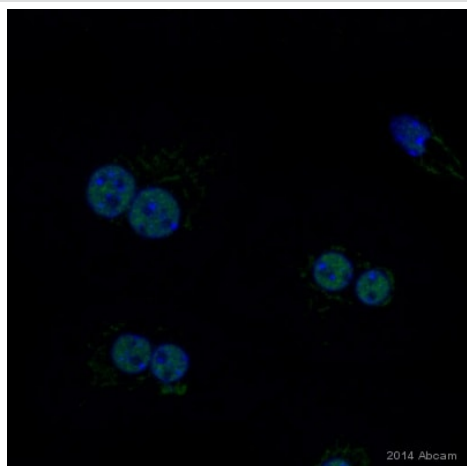
Predicted band size: 37 kDa

Observed band size: 37 kDa



Immunocytochemistry - Anti-SIRT6 antibody
(ab62739)

Immunocytochemistry/ Immunofluorescence analysis of HeLa cells labeling SIRT6 with ab62739. Cells were fixed and permeabilized with 4% paraformaldehyde followed by 0.5% Triton[™] X-100. Fixed cells were stained with 2.5 µg/mL Anti-SIRT6 antibody - ChIP Grade (ab62739). The antibody was developed using Goat Anti-Rabbit IgG, Cy3[™] conjugate.



Immunocytochemistry - Anti-SIRT6 antibody
(ab62739)

This image is courtesy of an anonymous abreview.

Immunocytochemistry/ Immunofluorescence analysis of mouse primary hepatocytes labeling SIRT6 with ab62739 at 1/200 dilution. The cells were fixed with paraformaldehyde, followed by blocking with 3% BSA for 2 hours at 20°C. A polyclonal goat anti-rabbit IgG Alexa Fluor® 488 secondary antibody was used at 1/10000 dilution.

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