abcam

Product datasheet

Anti-SIRT2 antibody ab67299

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Overview

Product name	Anti-SIRT2 antibody
Description	Rabbit polyclonal to SIRT2
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Cynomolgus monkey, Common marmoset, Orangutan
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Whole extracts of mouse and rat brain ICC: HeLa cells
General notes	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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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 ab67299 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	★★★★☆ (2)	Use at an assay dependent concentration. Predicted molecular weight: 43 kDa.
ICC		Use at an assay dependent concentration.

Target

Function NAD-dependent protein deacetylase, which deacetylates the 'Lys-40' of alpha-tubulin. Involved in the control of mitotic exit in the cell cycle, probably via its role in the regulation of cytoskeleton.

Tissue specificity Widely expressed. Highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulation of microtubule network.

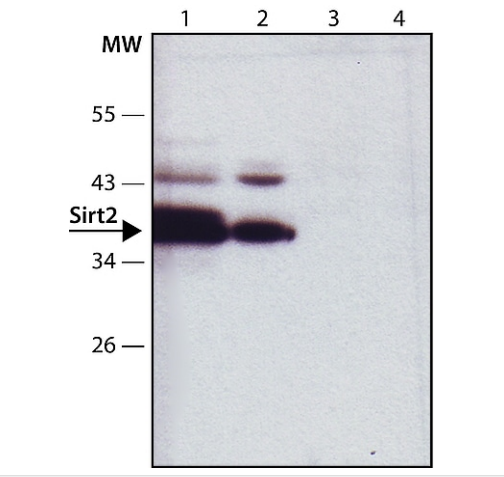
Sequence similarities Belongs to the sirtuin family.
Contains 1 deacetylase sirtuin-type domain.

Developmental stage Peaks during mitosis. After mitosis, it is probably degraded by the 26S proteasome.

Post-translational modifications Phosphorylated at the G2/M transition of the cell cycle.

Cellular localization Cytoplasm > cytoskeleton. Colocalizes with microtubules.

Images



Western blot - Anti-SIRT2 antibody (ab67299)

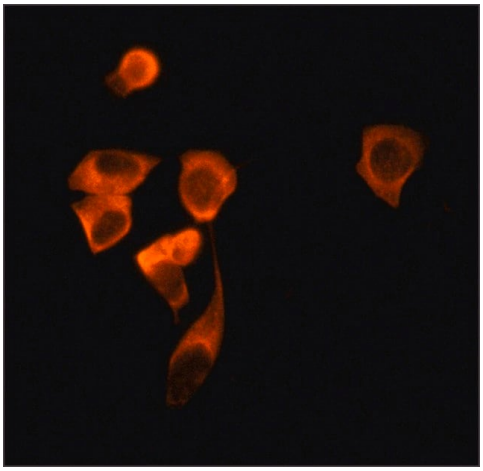
All lanes : Anti-SIRT2 antibody (ab67299) at 2 µg/ml

Lane 1 : Whole extracts of mouse brain
Lane 2 : Whole extracts of rat brain
Lane 3 : Whole extracts of mouse brain with SIRT2 immunizing peptide
Lane 4 : Whole extracts of rat brain with SIRT2 immunizing peptide

Secondary
All lanes : Goat Anti-Rabbit IgG-Peroxidase

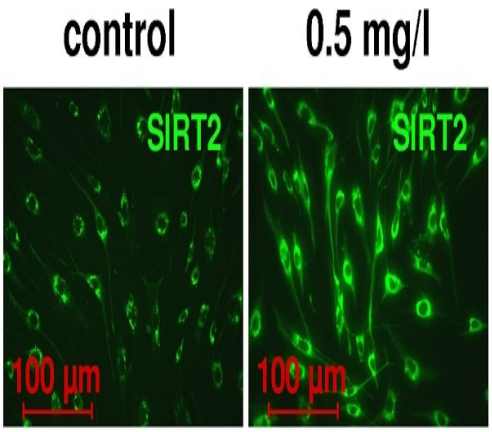
Predicted band size: 43 kDa

chemiluminescent substrate.



Immunocytochemistry - Anti-SIRT2 antibody (ab67299)

Immunocytochemistry analysis of HeLa cells labeling SIRT2 with ab67299 at 10 µg/mL. Cells were fixed and permeabilized with 4% paraformaldehyde followed by 0.5% Triton X-100. The antibody was developed using Goat Anti-Rabbit IgG, Cy3 conjugate.



Immunocytochemistry - Anti-SIRT2 antibody (ab67299)

Image from Stettner M et al., PLoS One. 2013;8(6):e66079. Fig 5.; doi: 10.1371/journal.pone.0066079. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

ab67299 staining SIRT2 in pure rat Schwann cells by ICC/IF (Immunocytochemistry/immunofluorescence) after resveratol (RSV) treatment. Cells were fixed with 4% PFA blocked with 10% Goat serum/ 0.1% Triton x-100/ 0.1% BSA in PBS for 60 minutes at 21°C followed by 10% Goat serum/ 0.5% Triton X-100/ 0.01% BSA in PBS for 15 minutes at 21°C. Samples were incubated with primary antibody (1/100 in PBS + 10% goat serum) overnight at 21°C. An Alexa Fluor®488-conjugated goat anti-mouse IgG polyclonal (1/400) was used as the secondary antibody. Stimulation of rSCs with RSV led to an increase of SIRT2 expression in densitometry analysis.

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