

Datasheet for ABIN3032583  
**anti-SIRT1 antibody (AA 566-601)**

## 5 Images

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## Overview

Quantity:	0.4 mL
Target:	SIRT1
Binding Specificity:	AA 566-601
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	A portion of amino acids 566-601 of the mouse protein was used as the immunogen for the SIRT1 antibody.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

## Target Details

Target:	SIRT1
Alternative Name:	SIRT1 ( <a href="#">SIRT1 Products</a> )
Background:	SIRT1 is a NAD-dependent protein deacetylase that links transcriptional regulation directly to intracellular energetics and participates in the coordination of several separated cellular functions such as cell cycle, response to DNA damage, metabolism, apoptosis and autophagy.

## Target Details

Can modulate chromatin function through deacetylation of histones and can promote alterations in the methylation of histones and DNA, leading to transcriptional repression. Deacetylates a broad range of transcription factors and coregulators, thereby regulating target gene expression positively and negatively. [UniProt]

UniProt: [Q923E4](#)

Pathways: [MAPK Signaling](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Carbohydrate Homeostasis](#), [Positive Regulation of Endopeptidase Activity](#), [Regulation of Carbohydrate Metabolic Process](#), [Positive Regulation of Response to DNA Damage Stimulus](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

## Application Details

Application Notes: The stated application concentrations are suggested starting points. Titration of the SIRT1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. IHC (Paraffin): 1:25,Immunofluorescence: 1:25,Western blot: 1:1000

Restrictions: For Research Use only

## Handling

Format: Liquid

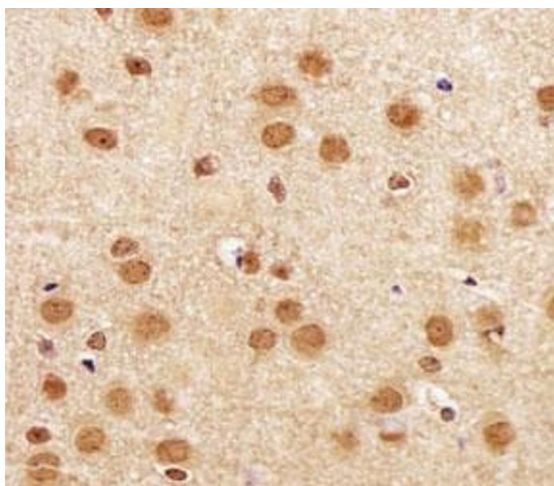
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

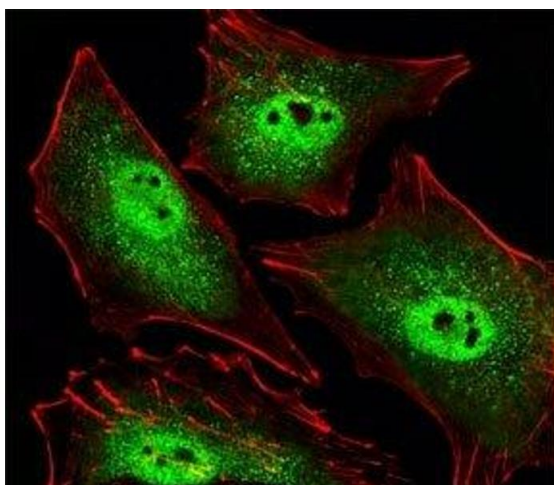
Storage: -20 °C

Storage Comment: Store at 4°C for up to one month. For long term, aliquot the SIRT1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



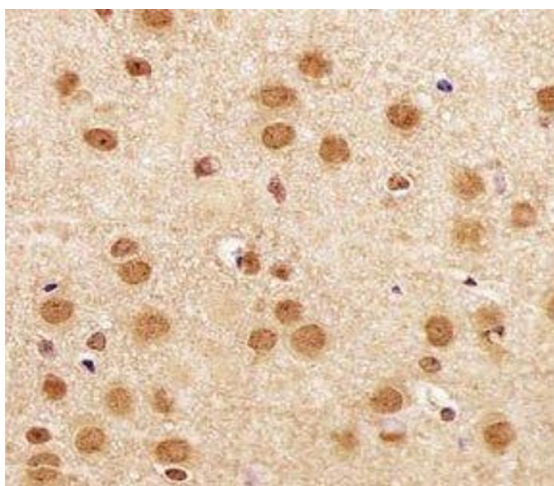
#### Immunohistochemistry

**Image 1.** IHC analysis of FFPE mouse brain section using SIRT1 antibody at 1:25.



#### Immunofluorescence

**Image 2.** Fluorescent image of A549 cells stained with SIRT1 antibody. Ab was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary Ab (green). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with a secondary antibody.



#### Immunohistochemistry

**Image 3.** IHC analysis of FFPE mouse brain section using SIRT1 antibody at 1:25.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3032583.