



## Product datasheet

### Anti-SIRT3 antibody ab189860

★★★★★ [2 Abreviews](#) [14 References](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-SIRT3 antibody
<b>Description</b>	Rabbit polyclonal to SIRT3
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant full length protein corresponding to Human SIRT3 aa 1 to the C-terminus. Database link: <a href="#">Q9NTG7</a>
	<div>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div>
<b>Positive control</b>	WB: HeLa cell extracts. IHC: human thyroid cancer, rat kidney, mouse kidney.
<b>General notes</b>	<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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab189860 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	★★★★★ (1)	1/500 - 1/1000. Predicted molecular weight: 44 kDa.
IHC-P	★★★★★ (1)	1/20 - 1/50.

## Target

### Function

NAD-dependent protein deacetylase. Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues. Known targets include ACSS1, IDH, GDH, SOD2, PDHA1, LCAD, SDHA and the ATP synthase subunit ATP5O. Contributes to the regulation of the cellular energy metabolism. Important for regulating tissue-specific ATP levels.

### Tissue specificity

Widely expressed.

### Sequence similarities

Belongs to the sirtuin family. Class I subfamily.  
Contains 1 deacetylase sirtuin-type domain.

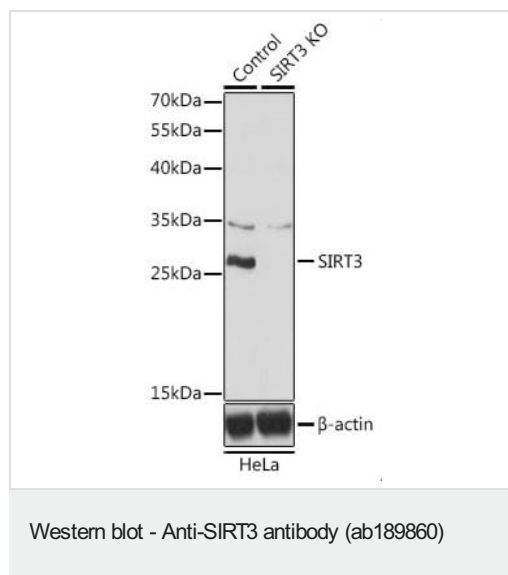
### Post-translational modifications

Processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product. Such processing is probably essential for its enzymatic activity.

### Cellular localization

Mitochondrion matrix.

## Images



**All lanes** : Anti-SIRT3 antibody (ab189860) at 1/500 dilution

**Lane 1** : HeLa cells extracts

**Lane 2** : SIRT3 knockout (KO) HeLa cells extracts

Lysates/proteins at 25 µg per lane.

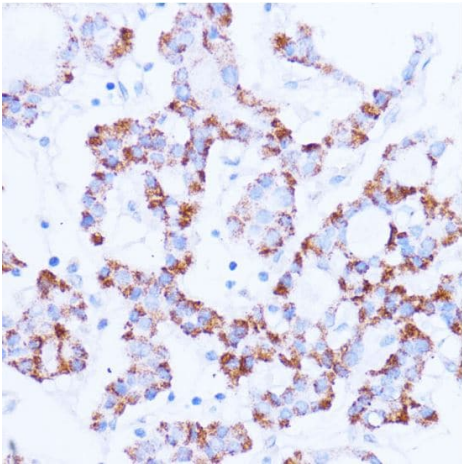
### Secondary

**All lanes** : HRP Goat Anti-Rabbit IgG

Developed using the ECL technique.

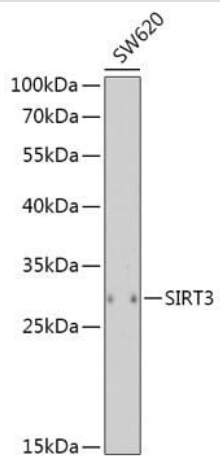
**Predicted band size:** 44 kDa

**Exposure time:** 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SIRT3 antibody (ab189860)

Paraffin-embedded human thyroid cancer stained for SIRT3 using ab189860 at 1:100 dilution in immunohistochemical analysis.



Western blot - Anti-SIRT3 antibody (ab189860)

Anti-SIRT3 antibody (ab189860) at 1/1000 dilution + Extracts of SW620 cells at 25 µg

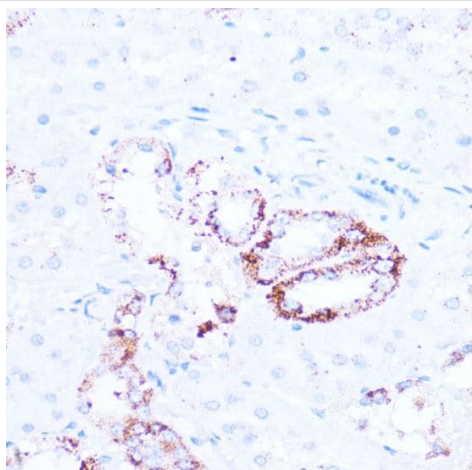
#### Secondary

HRP Goat Anti-Rabbit IgG

Developed using the ECL technique.

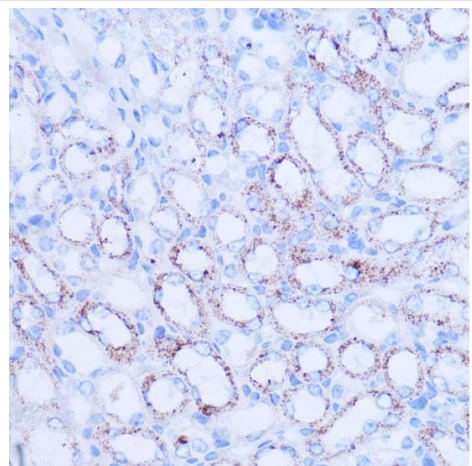
**Predicted band size:** 44 kDa

**Exposure time:** 180 seconds



Paraffin-embedded rat kidney tissue stained for SIRT3 using ab189860 at 1:100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SIRT3 antibody (ab189860)



Paraffin-embedded mouse kidney tissue stained for SIRT3 using ab189860 at 1:100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SIRT3 antibody (ab189860)

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

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