




## Product datasheet

### Anti-SIRT3 antibody ab118334

★★★★☆ [4 Abreviews](#) [10 References](#) [1 Image](#)

#### Overview

<b>Product name</b>	Anti-SIRT3 antibody
<b>Description</b>	Goat polyclonal to SIRT3
<b>Host species</b>	Goat
<b>Specificity</b>	ab118334 is expected to recognize both reported isoforms (NP_071878.2; NP_001171275.1). Reported variants represent identical proteins: NP_071878.2; NP_001120823.1.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Caenorhabditis elegans <b>Predicted to work with:</b> Rat, Horse, Human, Pig 
<b>Immunogen</b>	Synthetic peptide: RASGIPASKLVEAH with a Cysteine residue linker, corresponding to internal sequence amino acids 93-106 of Mouse SIRT3 (NP_071878.2), or amino acids 170-183 (NP_001171275.1).  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	Mouse heart lysate.
<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. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified

<b>Purification notes</b>	ab118334 is purified from Goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

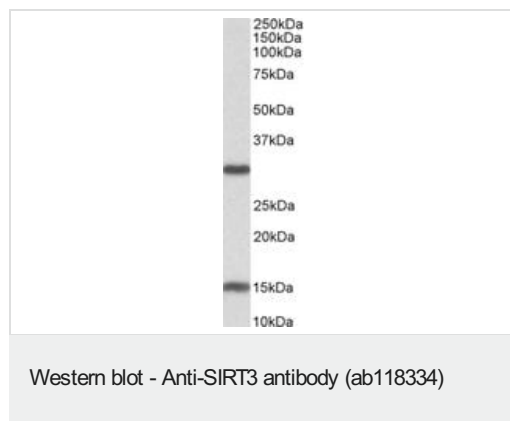
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab118334 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>	★★★★☆ (3)	Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 29 kDa (predicted molecular weight: 29 kDa). 1 hour primary incubation is recommended for this product.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Widely expressed.
<b>Sequence similarities</b>	Belongs to the sirtuin family. Class I subfamily. Contains 1 deacetylase sirtuin-type domain.
<b>Post-translational modifications</b>	Processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product. Such processing is probably essential for its enzymatic activity.
<b>Cellular localization</b>	Mitochondrion matrix.

## Images



Anti-SIRT3 antibody (ab118334) at 0.3 µg/ml (for 1 hour) + Mouse Heart lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

**Predicted band size:** 29 kDa

An additional band of unknown identity was also consistently observed at 15kDa. This band was successfully blocked by incubation with the immunizing peptide.

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

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