

Product datasheet

Anti-SIRT3 antibody ab75434

2 References 1 Image

Overview

Product name	Anti-SIRT3 antibody
Description	Rabbit polyclonal to SIRT3
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide: RDLVGPVFLSPRRKDVVQL , corresponding to amino acids 203-221 of Human SIRT3 Run BLAST with Run BLAST with

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab75434** in the following tested applications.

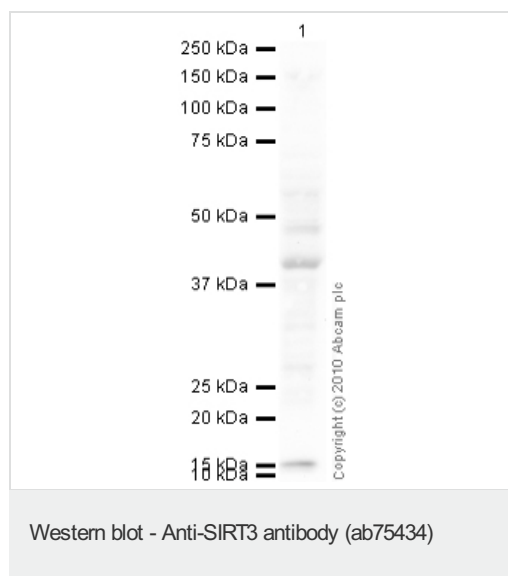
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500. Detects a band of approximately 42 kDa (predicted molecular weight: 44 kDa).

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



Anti-SIRT3 antibody (ab75434) at 1 µg/ml +
Human liver tissue lysate - total protein
(ab29889) at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed
(ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 44 kDa

Observed band size: 42 kDa

Additional bands at: 16 kDa, 48 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes

The band observed at 42 kDa could potentially be a cleaved form of SIRT3 due to the presence of a transit peptide.

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