

Product datasheet

Anti-SIRT3 antibody ab75434

1 References 1 Image

Overview

Product name	Anti-SIRT3 antibody
Description	Rabbit polyclonal to SIRT3
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.

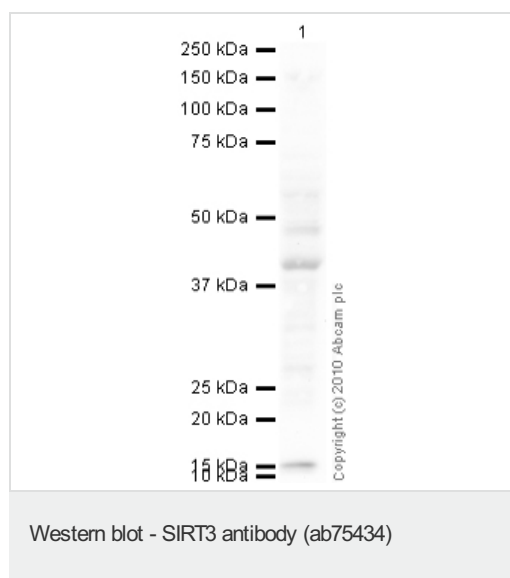
Post-translational modifications

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

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