

Product datasheet

Anti-SIRT2 antibody [EPR1667] ab134171

KO VALIDATED Recombinant RabMAb

★★★★☆ 1 Abreviews 2 References 3 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-SIRT2 antibody [EPR1667] |
| Description | Rabbit monoclonal [EPR1667] to SIRT2 |
| Host species | Rabbit |
| Tested applications | Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | SKBR3 and SH-SY5Y cell lysates |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p> |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| Storage buffer | pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant |
| Purity | Protein A purified |
| Clonality | Monoclonal |

Clone number EPR1667
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab134171 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: 43 kDa. |

Application notes Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

Target

Function NAD-dependent protein deacetylase, which deacetylates the 'Lys-40' of alpha-tubulin. Involved in the control of mitotic exit in the cell cycle, probably via its role in the regulation of cytoskeleton.

Tissue specificity Widely expressed. Highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulation of microtubule network.

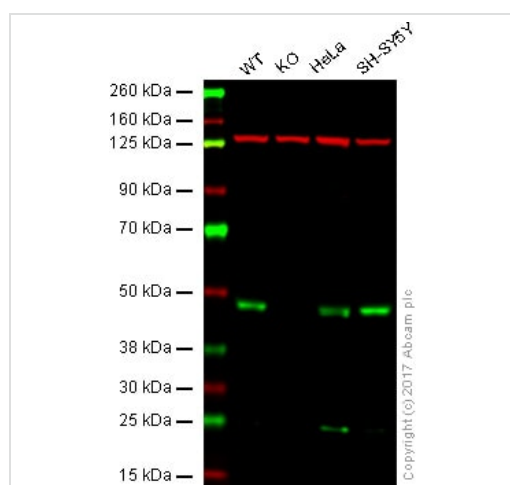
Sequence similarities Belongs to the sirtuin family.
Contains 1 deacetylase sirtuin-type domain.

Developmental stage Peaks during mitosis. After mitosis, it is probably degraded by the 26S proteasome.

Post-translational modifications Phosphorylated at the G2/M transition of the cell cycle.

Cellular localization Cytoplasm > cytoskeleton. Colocalizes with microtubules.

Images



Western blot - Anti-SIRT2 antibody [EPR1667] (ab134171)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

Lane 2: SIRT2 knockout HAP1 whole cell lysate (20 µg)

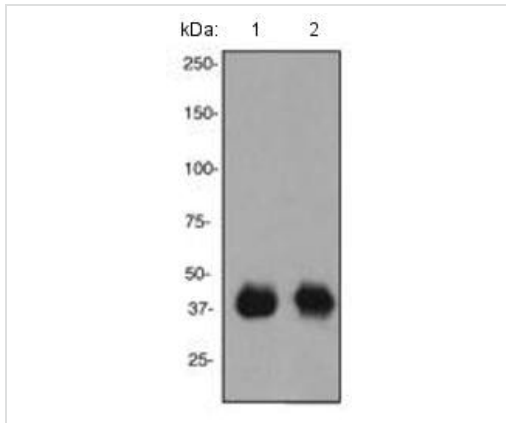
Lane 3: HeLa whole cell lysate (20 µg)

Lane 4: SH-SY5Y whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab134171 observed at 48 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab134171 was shown to specifically react with SIRT2 in wild-type HAP1 cells. No band was observed when SIRT2 knockout samples were examined. Wild-type and SIRT2 knockout samples were subjected to SDS-PAGE. Ab134171 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/500

dilution and 1/10,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-SIRT2 antibody [EPR1667] (ab134171)

All lanes : Anti-SIRT2 antibody [EPR1667] (ab134171) at 1/500 dilution

Lane 1 : SKBR3 cell lysate

Lane 2 : SH-SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 43 kDa

Why choose a recombinant antibody?

- Research with confidence**
Consistent and reproducible results
- Long-term and scalable supply**
Recombinant technology
- Success from the first experiment**
Confirmed specificity
- Ethical standards compliant**
Animal-free production

Anti-SIRT2 antibody [EPR1667] (ab134171)

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

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