

### Anti-SIRT2 antibody [EPR20411-105] ab211033

**重组** RabMAb

★★★★★ **7 Abreviews** **12 References** **9 图像**

#### 概述

产品名称	Anti-SIRT2抗体[EPR20411-105]
描述	兔单克隆抗体[EPR20411-105] to SIRT2
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IHC-P, IHC-Fr, IP
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human fetal brain and brain cortex lysates; Mouse brain and cerebral cortex lysates; Rat brain lysate; MCF7 whole cell lysate. IHC-P: Human, mouse and rat cerebrum tissues. IHC-Fr: Mouse striatum tissue. IP: Human fetal brain lysate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 0.05% BSA, 40% Glycerol</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR20411-105

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab211033于以下的经测试应用

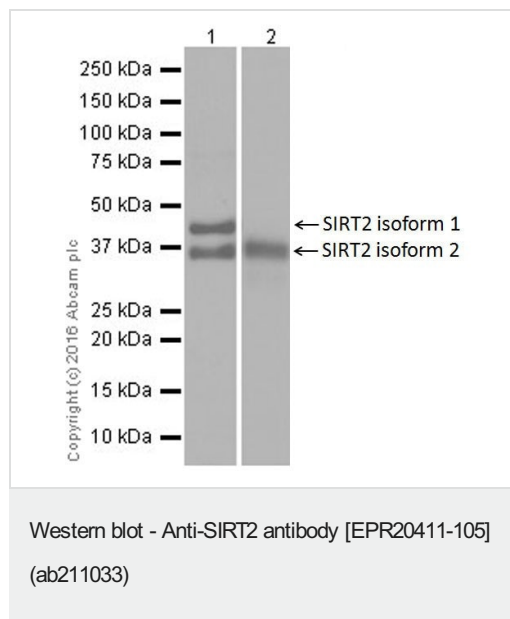
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (3)	1/2000. Detects a band of approximately 36, 43 kDa (predicted molecular weight: 43 kDa).
IHC-P		1/8000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		1/100. Anitgen retrieval: Heated citrate solution (10mM citrate pH 6.0 + 0.05% Tween-20).
IP		1/30.

靶标

功能	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.
组织特异性	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.
序列相似性	Belongs to the sirtuin family. Contains 1 deacetylase sirtuin-type domain.
发展阶段	Peaks during mitosis. After mitosis, it is probably degraded by the 26S proteasome.
翻译后修饰	Phosphorylated at the G2/M transition of the cell cycle.
细胞定位	Cytoplasm > cytoskeleton. Colocalizes with microtubules.

图片



**Lane 1** : Anti-SIRT2 antibody [EPR20411-105] (ab211033) at 1/5000 dilution

**Lane 2** : Anti-SIRT2 antibody [EPR20411-105] (ab211033) at 1/2000 dilution

**Lane 1** : Human fetal brain lysate

**Lane 2** : Human brain cortex lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

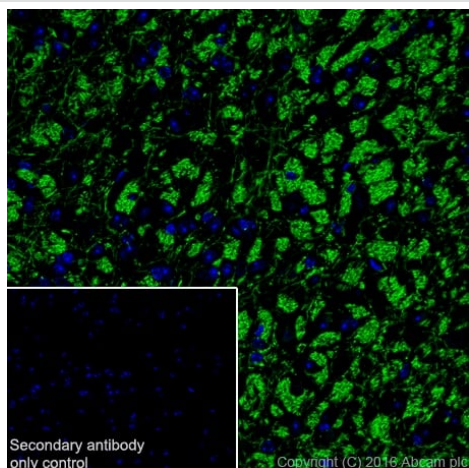
**Predicted band size:** 43 kDa

**Observed band size:** 36,43 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1: 8 seconds; Lane 2: 1 second.

SIRT2 exists in two main isoforms, SIRT2.1 (43 kDa) and SIRT2.2 (39 kDa). The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:21791548).



Immunohistochemistry (Frozen sections) - Anti-SIRT2 antibody [EPR20411-105] (ab211033)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse striatum tissue labeling SIRT2 with ab211033 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Cytoplasmic staining on mouse striatum is observed [PMID: 17447894]. The nuclear counterstain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

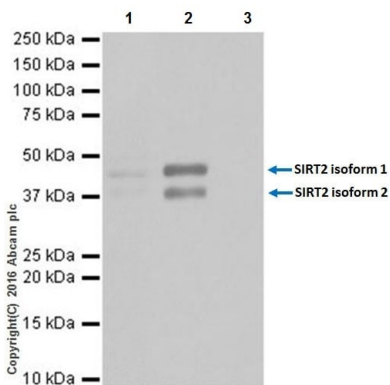


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SIRT2 antibody [EPR20411-105] (ab211033)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labeling SIRT2 with ab211033 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasmic staining on myelinated axons of human cerebrum is observed [PMID: 17447894]. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-SIRT2 antibody  
[EPR20411-105] (ab211033)

SIRT2 was immunoprecipitated from 0.35 mg of Human fetal brain lysate with ab211033 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab211033 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

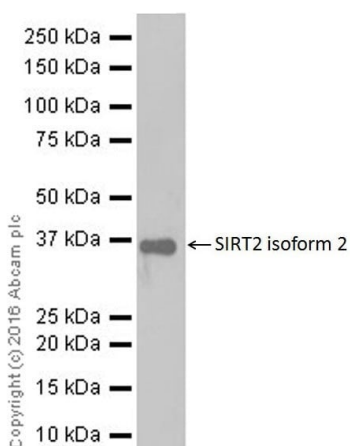
Lane 1: Human fetal brain lysate, 10 µg (Input).

Lane 2: ab211033 IP in Human fetal brain lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab211033 in Human fetal brain lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.



Western blot - Anti-SIRT2 antibody [EPR20411-105]  
(ab211033)

Anti-SIRT2 antibody [EPR20411-105] (ab211033) at 1/2000 dilution + MCF7 (Human breast adenocarcinoma cell line) whole cell lysate at 20 µg

### Secondary

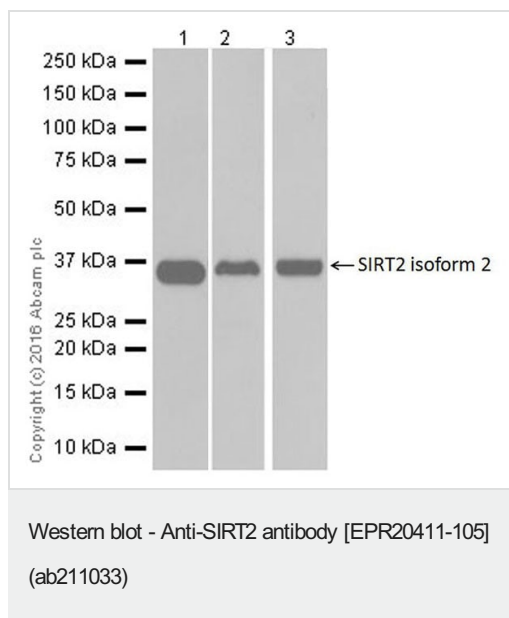
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 43 kDa

**Observed band size:** 36 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



**All lanes :** Anti-SIRT2 antibody [EPR20411-105] (ab211033) at 1/2000 dilution

**Lane 1 :** Mouse brain lysate

**Lane 2 :** Mouse cerebral cortex lysate

**Lane 3 :** Rat brain lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

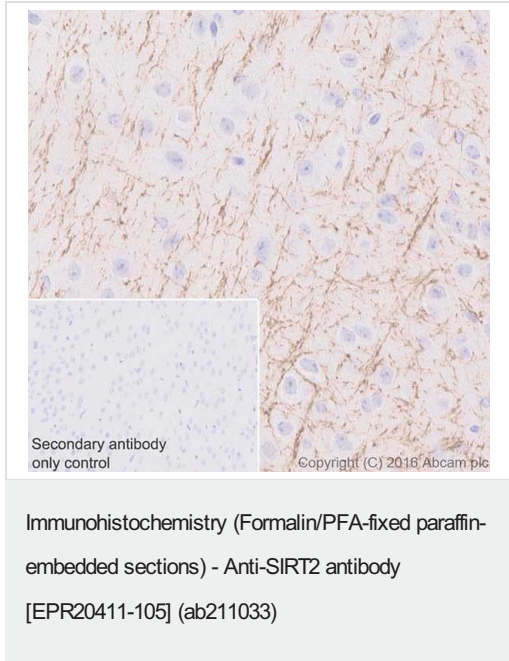
**Predicted band size:** 43 kDa

**Observed band size:** 36 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1: 3 minutes; Lane 2/3: 5 seconds.

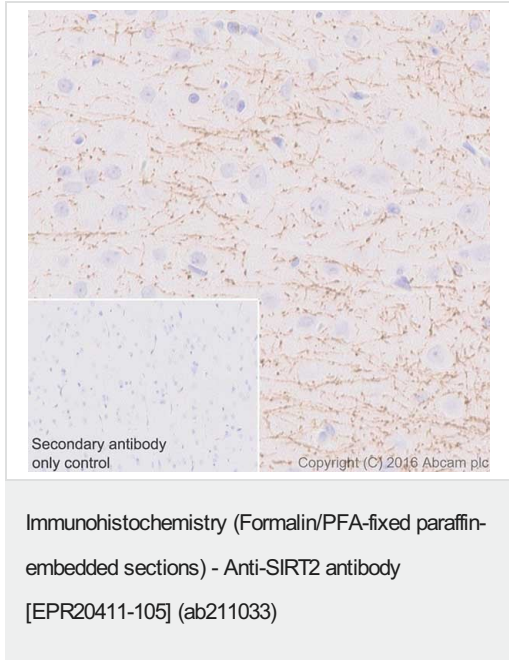
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:21791548).



Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling SIRT2 with ab211033 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasmic staining on myelinated axons of mouse cerebrum is observed [PMID: 17447894]. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labeling SIRT2 with ab211033 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasmic staining on myelinated axons of rat cerebrum is observed [PMID: 17447894]. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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

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Animal-free production

Anti-SIRT2 antibody [EPR20411-105] (ab211033)

7

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

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