

Anti-SIRT2 antibody ab19388

3 References **3 图像**

概述

产品名称	Anti-SIRT2抗体
描述	兔多克隆抗体to SIRT2
宿主	Rabbit
特异性	SIRT2 antibody (ab19388) detects SIRT2 and shows no cross-reactivity to other SIRT isoforms.
经测试应用	适用于: IHC-P, WB, ICC/IF
种属反应性	与反应: Mouse, Human
免疫原	Synthetic peptide corresponding to Human SIRT2 aa 377-389. Sequence: DEARTTEREKPKQ
阳性对照	ICC/IF: SAOS2 transfected cell lysates WB: HeLa and MCF7 whole cell lysate; Mouse brain and liver tissue lysates IHC-P: Human heart tissue
常规说明	<p>The SIRT2 protein (also known as Sirtuin for Silent Mating Type Information 2-Homolog) is a NAD-dependent deacetylase (NDAC) that has been shown to control gene silencing, cell cycle, and DNA damage repair. It is believed that SIRT2 may act as a tumor suppressor in human gliomas and may also serve as a novel molecular marker for these cells. SIRT2 has also been shown to act as a redox sensor to help regulate muscle gene expression in response to food intake and exercise. SIRT2 acts in the phosphorylation cascade involving mitosis where SIRT2 is phosphorylated in late G2 phase, during M phase, and into cytokinesis.</p> <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&As</p>

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性能

形式 Liquid

存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.05% Sodium azide
纯度	Whole antiserum
Primary antibody说明	The SIRT2 protein (also known as Sirtuin for Silent Mating Type Information 2-Homolog) is a NAD-dependent deacetylase (NDAC) that has been shown to control gene silencing, cell cycle, and DNA damage repair. It is believed that SIRT2 may act as a tumor suppressor in human gliomas and may also serve as a novel molecular marker for these cells. SIRT2 has also been shown to act as a redox sensor to help regulate muscle gene expression in response to food intake and exercise. SIRT2 acts in the phosphorylation cascade involving mitosis where SIRT2 is phosphorylated in late G2 phase, during M phase, and into cytokinesis.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab19388于以下的经测试应用

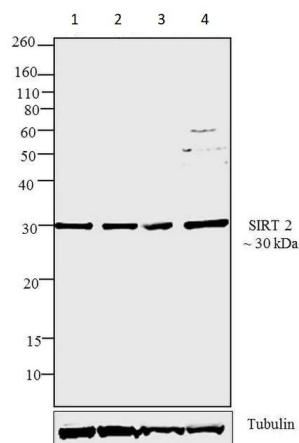
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/100.
WB		1/250. Detects a band of approximately 48 kDa (predicted molecular weight: 43 kDa).
ICC/IF		1/400.

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



Western blot - Anti-SIRT2 antibody (ab19388)

All lanes : Anti-SIRT2 antibody (ab19388) at 1/250 dilution

Lane 1 : Mouse liver tissue lysate

Lane 2 : Mouse brain tissue lysate

Lane 3 : MCF7 whole cell lysate

Lane 4 : HeLa whole cell lysate

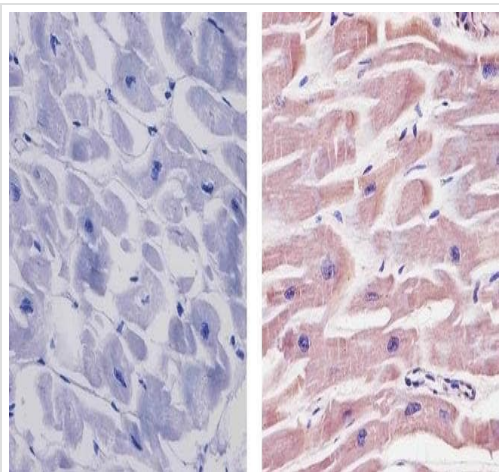
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, HRP conjugate at 1/5000 dilution

Predicted band size: 43 kDa

Observed band size: 30 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SIRT2 antibody (ab19388)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of SIRT2 showing staining in the cytoplasm of paraffin-embedded human heart tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with ab19388 diluted in 3% BSA-PBS at a dilution of 1/100 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Immunocytochemistry/ Immunofluorescence - Anti-SIRT2 antibody (ab19388)

Immunofluorescence staining of SIRT2 in transfected SAOS2 cells using ab19388.

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