

Datasheet for ABIN729853  
**anti-SIRT1 antibody (AA 101-200)**

7 Images

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## Overview

Quantity:	100 µL
Target:	SIRT1
Binding Specificity:	AA 101-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SIRT1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	SIRT1
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## Target Details

Alternative Name:	SIRT1 ( <a href="#">SIRT1 Products</a> )
Background:	<p>Synonyms: SIR2L1, NAD-dependent protein deacetylase sirtuin-1, hSIRT1, Regulatory protein SIR2 homolog 1, SIR2-like protein 1, hSIR2, SIRT1</p> <p>Background: This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined, however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]</p>
Gene ID:	23411
UniProt:	<a href="#">Q96EB6</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a> , <a href="#">Negative Regulation of intrinsic apoptotic Signaling</a>

## Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

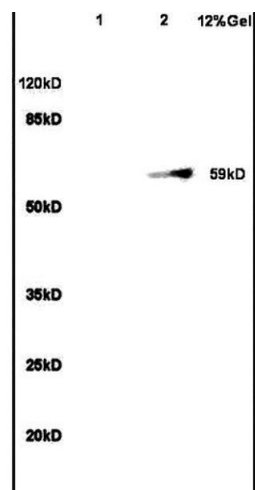
Format:	Liquid
Concentration:	1 µg/µL

## Handling

Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

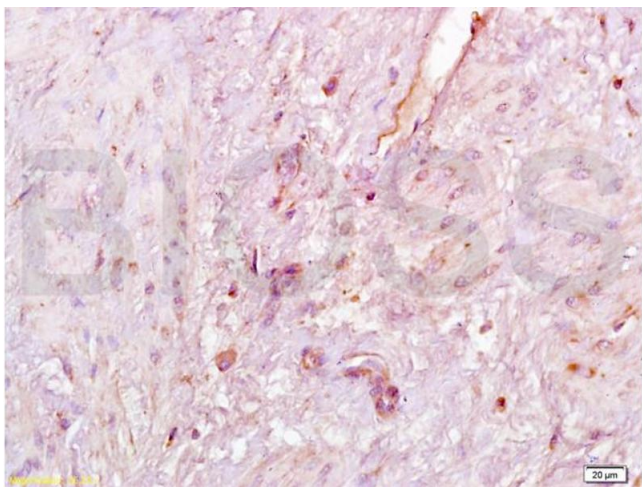
## Publications

Product cited in:	<p>Zeng, Hu, He, Wang, Li, Xiong, Ye: "Hypothermic machine perfusion ameliorates inflammation during ischemia-reperfusion injury via sirtuin-1-mediated deacetylation of nuclear factor-<math>\kappa</math>B p65 in rat livers donated after circulatory death." in: <b>Molecular medicine reports</b>, Vol. 16, Issue 6, pp. 8649-8656, (2018) (<a href="#">PubMed</a>).</p> <p>Yan, Jin, Cao, Wang, Lu, Yang, Wu, Cai: "Effects of Aluminium on Long-Term Memory in Rats and on SIRT1 Mediating the Transcription of CREB-Dependent Gene in Hippocampus." in: <b>Basic &amp; clinical pharmacology &amp; toxicology</b>, Vol. 121, Issue 4, pp. 342-352, (2017) (<a href="#">PubMed</a>).</p> <p>Hu, Fan, Lv, Zhou, Yang, Zheng, Cao: "5-Aminolevulinic acid-mediated sonodynamic therapy induces anti-tumor effects in malignant melanoma via p53-miR-34a-Sirt1 axis." in: <b>Journal of dermatological science</b>, Vol. 79, Issue 2, pp. 155-62, (2015) (<a href="#">PubMed</a>).</p> <p>Mohan, Kumar, Lackner, Alvarez: "Dysregulated miR-34a-SIRT1-acetyl p65 axis is a potential mediator of immune activation in the colon during chronic simian immunodeficiency virus infection of rhesus macaques." in: <b>Journal of immunology (Baltimore, Md. : 1950)</b>, Vol. 194, Issue 1, pp. 291-306, (2014) (<a href="#">PubMed</a>).</p> <p>Shi, Yin, Xuan, Yao, Meng, Hou: "Vam3, a derivative of resveratrol, attenuates cigarette smoke-induced autophagy." in: <b>Acta pharmacologica Sinica</b>, Vol. 33, Issue 7, pp. 888-96, (2012) (<a href="#">PubMed</a>).</p>
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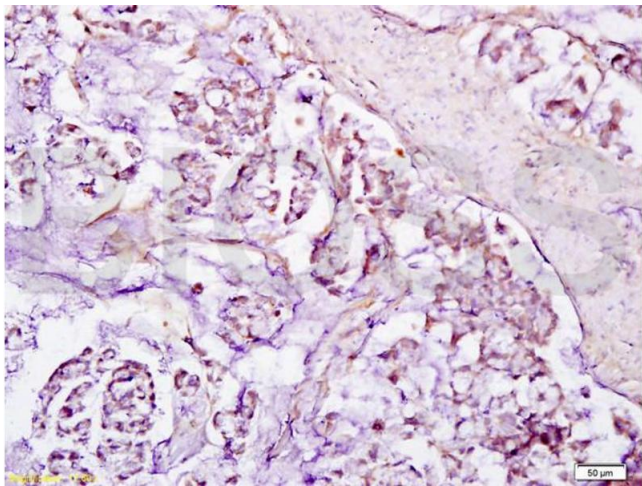
### SDS-PAGE

**Image 1.** Lane 1: mouse liver lysates Lane 2: mouse brain lysates probed with Anti SIRT1 Polyclonal Antibody, Unconjugated (ABIN729853) at 1:200 in 4C. Followed by conjugation to secondary antibody at 1:3000 90min in 37C. Predicted band 59/82kD. Observed band size: 59/82kD



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded human endometrial carcinoma labeled with Anti-SIRT1 Polyclonal Antibody, Unconjugated (ABIN729853) at 1:200, followed by conjugation to the secondary antibody and DAB staining



### Immunohistochemistry

**Image 3.** Formalin-fixed and paraffin embedded human gastric carcinoma labeled with Anti-SIRT1 Polyclonal Antibody, Unconjugated (ABIN729853) at 1:200, followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN729853.