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## Datasheet for ABIN969396 anti-SIRT1 antibody

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## Overview

Quantity:	100 µL
Target:	SIRT1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SIRT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Purified recombinant fragment of human SIRT1 expressed in E. coli.
Clone:	1F3
Isotype:	lgG1
Purification:	purified

## Target Details

Target:	SIRT1
Alternative Name:	SIRT1 (SIRT1 Products)
Background:	Description: The Sir2 protein in yeast is known to function in transcriptional silencing processes
	through the deacetylation of histories H3 and H4. The more recently described human
Background:	Description: The Sir2 protein in yeast is known to function in transcriptional silencing processe through the deacetylation of histones H3 and H4. The more recently described human homologue of Sir2, known as SIRT1, has been found to associate with the tumor suppressor

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	<ul> <li>protein p53.SIRT1 binds and deacetylates p53 with specificity for its C-terminal Lys382 residue</li> <li>in response to the upregulation of promyelocytic leukemia protein (PML) nuclear bodies or</li> <li>oncogenic Ras. The deacetylation of p53 SIRT1 has been shown to negatively regulate p53-</li> <li>mediated transcription, preventing cellular senescence and apoptosis induced by DNA damage</li> <li>and stress.SIRT1 has the closest homology to the yeast Sir2p and is widely expressed in fetal</li> <li>and adult tissues, with high expression in heart, brain and skeletal muscle and low expression in</li> <li>lung and placenta. SIRT1 regulates the p53-dependent DNA damage response pathway by</li> <li>binding to and deacetylating p53, specifically at Lysine 382.</li> <li>Aliases: SIR2L1, SIRT1</li> </ul>
Molecular Weight:	120 kDa
Gene ID:	23411
HGNC:	23411
Pathways:	MAPK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Carbohydrate Homeostasis, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus, Negative Regulation of intrinsic apoptotic Signaling
Application Details	
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

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Li, Xia, Huang, Chen, Su, Li, Wang, Ding, Shao: "A strategy to rapidly identify the functional targets of microRNAs by combining bioinformatics and mRNA cytoplasmic/nucleic ratios in culture cells." in: **FEBS letters**, Vol. 584, Issue 14, pp. 3198-202, (2010) (PubMed).

## Images



### **Flow Cytometry**

**Image 1.** Flow cytometric analysis of K562 cells using SIRT1 mouse mAb (green) and negative control (purple).

#### Immunofluorescence

**Image 2.** Immunofluorescence analysis of NTERA-2 cells using SIRT1 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



### Immunohistochemistry

**Image 3.** Immunohistochemical analysis of paraffinembedded lung cancer tissues (left) and kidney cancer tissues (right) using SIRT1 mouse mAb with DAB staining.

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