

## Datasheet for ABIN3042483 anti-SIRT1 antibody (AA 112-311)

2 Images

1 Publication



## Overview

Quantity:	100 µg
Target:	SIRT1
Binding Specificity:	AA 112-311
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT1 antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for NAD-dependent protein deacetylase sirtuin-1(SIRT1) detection. Tested with WB in Human.
Immunogen:	E.coli-derived human SIRT1 recombinant protein (Position: R112-K311). Human SIRT1 shares 90% amino acid (aa) sequence identity with mouse SIRT1.
lsotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for NAD-dependent protein deacetylase sirtuin-1(SIRT1) detection. Tested with WB in Human. Gene Name: sirtuin 1 Protein Name: NAD-dependent protein deacetylase sirtuin-1
Purification:	Immunogen affinity purified.

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Target Details	
Target:	SIRT1
Alternative Name:	SIRT1 (SIRT1 Products)
Background:	Sirtuin 1, also known as SIR2L1 or SIRT1, is a protein that in humans is encoded by the SIRT1 gene. It is mapped to 10q21.3. Sirtuin 1 is a member of the sirtuin family of proteins, homologs of the Sir2 gene in S. cerevisiae. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. Sirtuin 1 is downregulated in cells that have high insulin resistance and inducing its expression increases insulin sensitivity, suggesting the molecule is associated with improving insulin sensitivity. Furthermore, Sirtuin 1 was shown to de-acetylate and affect the activity of both members of the PGC1-alpha/ERR-alpha complex, which are essential metabolic regulatory transcription factors. Synonyms: 75SirT1 antibody/BA57G10.4 antibody/INSIR2 antibody/INSIRT1 antibody/INST2, S. cerevisiae, homolog of antibody/INAD dependent deacetylase SIRT1 antibody/INAD dependent deacetylase sirtuin 1 antibody/IOTTHUMP00000198111 antibody/OTTHUMP00000198112 antibody/ISIR2 like protein 1 antibody/ISIR2 homolog 1 antibody/ISIR1_HUMAN antibody/ISIR2 like 1 antibody/ISIR2 like protein 1 antibody/ISIR2 like protein 1 antibody/ISIR2 like protein 1 antibody/ISIR2ALPHA antibody/ISIR2alpha protein antibody/ISIR211 antibody/ISIR1 1 antibody/ISIR1 Sir2 like protein 2 homolog) 1 (S. cerevisiae) antibody/ISIR11 75 kDa fragment antibody/Isirt1 antibody/Isirt1 in thiody/Isirt1 antibody/ISIR1 1 antibody/Isirt1 antibody/Isirt1 antibody/ISIR1 1 antibody/Isirt1 3 kite protein 2 homolog) 1 (S. cerevisiae) antibody/ISIR1 75 kDa fragment antibody/Isirt1 in antibody/Isirt1 antibody/Isir
Gene ID:	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:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for SIRT1 is approximately 0.25 ng/lane under reducing conditions. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

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Application Details	
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu\text{g/mL}.$
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Publications	
Product cited in:	Hou, Zheng, Li, Gao, Zhang: "The protective effect of glycyrrhizic acid on renal tubular epithelial cell injury induced by high glucose." in: <b>International journal of molecular sciences</b> , Vol. 15, Issue 9, pp. 15026-43, (2015) (PubMed).

97KD —
58KD —
40KD — 🕳
29KD —
20KD —
14KD —
130KD
100KD -
70KD —
55KD <b>—</b>
55KD <b>-</b> 35KD <b>-</b>

## Western Blotting

**Image 1.** Anti-SIRT1 Picoband antibody, All lanes: Anti SIRT1 at 0.5ug/ml WB: Recombinant Human SIRT1 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD

## Western Blotting

**Image 2.** Anti-SIRT1 Picoband antibody, All lanes: Anti SIRT1 at 0.5ug/ml Lane 1: HEPG2 Whole Cell Lysate at 40ug Lane 2: MCF Whole Cell Lysate at 40ug Lane 3: SW620 Cell Lysate at 40ug Predicted bind size: 120KD Observed bind size: 120KD

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