

Datasheet for ABIN2779610
anti-SIRT3 antibody (C-Term)



[Go to Product page](#)

3 Images

3 Publications

Overview

Quantity:	100 µL
Target:	SIRT3
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Guinea Pig, Horse, Rabbit, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human SIRT3
Sequence:	VGPLAWHPRS RDVAQLGDVV HGVESLVELL GWTEEMRDLV QRETGKLDGP
Predicted Reactivity:	Cow: 100%, Dog: 79%, Guinea Pig: 79%, Horse: 86%, Human: 100%, Mouse: 86%, Rabbit: 100%, Rat: 79%
Characteristics:	This is a rabbit polyclonal antibody against SIRT3. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target:	SIRT3
---------	-------

Target Details

Alternative Name:	SIRT3 (SIRT3 Products)
Background:	<p>The SIRT3 gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. 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. SIRT3 encodes a protein that is included in class I of the sirtuin family.</p> <p>Alias Symbols: SIR2L3</p> <p>Protein Interaction Partner: SIRT5, SKP2, UBC, HSPD1, CMYA5, PGAP1, RIF1, NCAPD2, HERC2, TTF2, UQCRH, UGDH, HSP90B1, SNTB1, SBF1, HSPA9, HSPA5, HSPA4, HSPA1L, GRN, ATP5B, ATP5A1, SIRT4, tat, XRCC6, FOXO3, DNM1L, PEX5,</p> <p>Protein Size: 257</p>
Molecular Weight:	28 kDa
Gene ID:	23410
NCBI Accession:	NM_001017524 , NP_001017524
UniProt:	Q9NTG7

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 257 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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 freeze-thaw cycles.

Handling

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

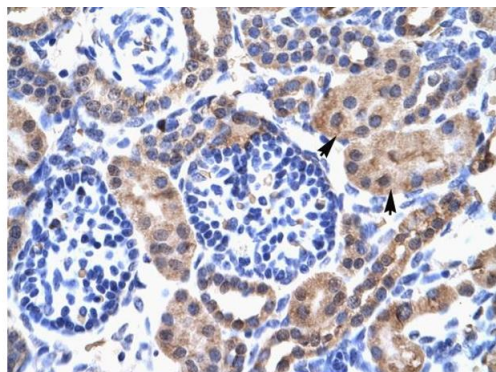
Publications

Product cited in: Vidimar, Gius, Chakravarti, Bulun, Wei, Kim: "Dysfunctional MnSOD leads to redox dysregulation and activation of prosurvival AKT signaling in uterine leiomyomas." in: **Science advances**, Vol. 2, Issue 11, pp. e1601132, (2016) ([PubMed](#)).

Marfè, Tafani, Fiorito, Pagnini, Iovane, De Martino: "Involvement of FOXO transcription factors, TRAIL-FasL/Fas, and sirtuin proteins family in canine coronavirus type II-induced apoptosis." in: **PLoS ONE**, Vol. 6, Issue 11, pp. e27313, (2011) ([PubMed](#)).

Lanza, Short, Short, Raghavakaimal, Basu, Joyner, McConnell, Nair: "Endurance exercise as a countermeasure for aging." in: **Diabetes**, Vol. 57, Issue 11, pp. 2933-42, (2008) ([PubMed](#)).

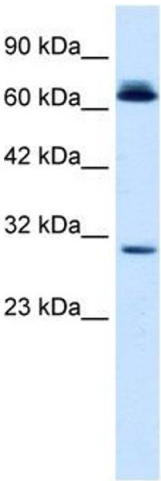
Images



Rabbit Anti-SIRT3 Antibody
Catalog Number: ARP32389
Lot Number: QC2241
Paraffin Embedded Tissue: Human Kidney
Cells with Positive label: Epithelial cells of renal tubule (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

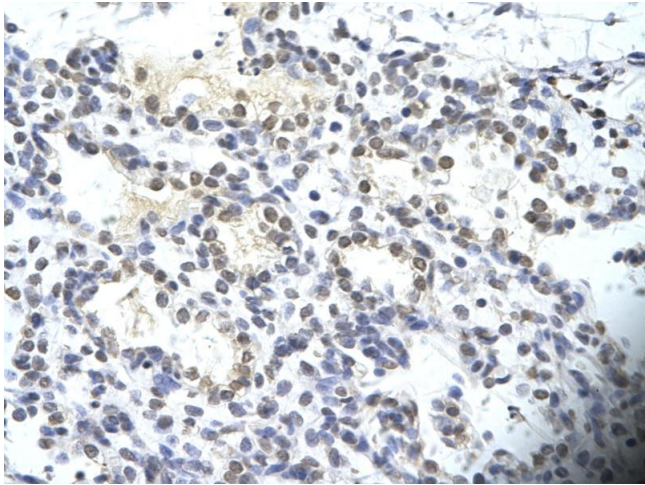
Immunohistochemistry

Image 1. Human kidney



Western Blotting

Image 2. WB Suggested Anti-SIRT3 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: Human Thymus



Immunohistochemistry

Image 3. Rabbit Anti-SIRT3 Antibody Paraffin Embedded Tissue: Human alveolar cell Cellular Data: Epithelial cells of renal tubule Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X