

Datasheet for ABIN2779624

anti-SIRT6 antibody (Middle Region)



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Overview

Quantity:	100 µL
Target:	SIRT6
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Dog, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human SIRT6
Sequence:	TRINGSIPAG PKQEPCAQHN GSEPA SPKRE RPTSPAPHRP PKRVKAKAVP
Predicted Reactivity:	Cow: 100%, Dog: 100%, Human: 100%, Rat: 83%
Characteristics:	This is a rabbit polyclonal antibody against SIRT6. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	SIRT6
Alternative Name:	SIRT6 (SIRT6 Products)

Target Details

Background:	<p>SIRT6 is a NAD-dependent protein deacetylase. SIRT6 has deacetylase activity towards 'Lys-9' and 'Lys-56' of histone H3. SIRT6 modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. Deacetylates 'Lys-9' of histone H3 at NF-kappa-B target promoters and may down-regulate the expression of a subset of NF-kappa-B target genes. Deacetylation of nucleosomes interferes with RELA binding to target DNA. SIRT6 may be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance. SIRT6 is required for genomic stability, normal IGF1 serum levels and normal glucose homeostasis. SIRT6 modulates cellular senescence and apoptosis. SIRT6 regulates the production of TNF protein. 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 IV of the sirtuin family.</p> <p>Alias Symbols: SIR2L6</p> <p>Protein Interaction Partner: UBC, MDM2, AKT1, STUB1, SKP2, ABCF2, FAF1, VIM, UBE2D1, CHD3, NR0B2, tat, CCNDBP1, RELA, XRCC5, PRKDC, XRCC6, ELF5,</p> <p>Protein Size: 355</p>
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Molecular Weight:	39 kDa
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Gene ID:	51548
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NCBI Accession:	NM_016539 , NP_057623
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UniProt:	Q8N6T7
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Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 355 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific

Handling

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.
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:	Spellman, Ahmed, Dubach, Gardiner: "Expression of trisomic proteins in Down syndrome model systems." in: Gene , Vol. 512, Issue 2, pp. 219-25, (2012) (PubMed).
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Images

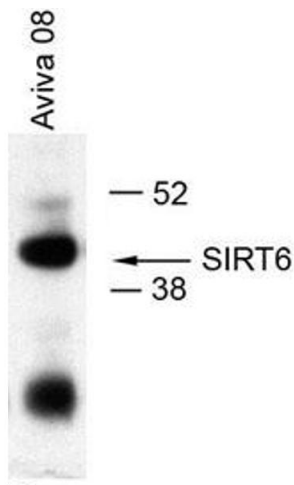


SIRT6 (ARP32408_T100)
Western Blot
Sample: U20S Cells
Dilution: IP: 5/ml of lysates

Application data in forum

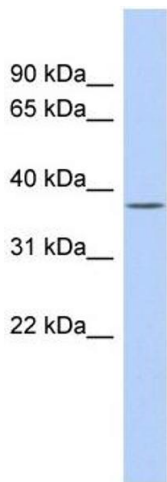
Submitted by:
Raul Mostoslavsky
Harvard Medical School

Image 1.



Western Blotting

Image 2. IP: 5 ul in 1ml of U2OS lysates



Western Blotting

Image 3. WB Suggested Anti-SIRT6 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human Spleen