

Product datasheet for **TA336289**

SIRT6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:1000-1:3000, IHC: 1:300, IHC-P: 1:300
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a C-terminal region of the mouse SIRT6 protein (within residues 250-334). [Swiss-Prot P59941]
Formulation:	Tris-citrate/phosphate, pH 7, 0.1% Sodium azide. Store at 4C. Do not freeze.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	37 kDa
Gene Name:	sirtuin 6
Database Link:	NP_057623 Entrez Gene 50721 Mouse Q8N6T7



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Background:

SIRT6 (SIR2-like protein 6) is a member of the yeast silent information regulator 2 (SIR2) family and possesses both strong ADP-ribosyltransferase activity as well as protein deacetylase activity which is dependent on NAD(+). SIRT6 exerts deacetylase activity towards histone H3K9Ac and H3K56Ac, and alters histone H3 acetylation in telomeric chromatin during cell cycle's S-phase. It deacetylates histone H3K9Ac at NFkB target promoters and downregulates a subset of NFkB target genes. Upon DNA damage, SIRT6 promotes DNA end resection via deacetylation of RBBP8. SIRT6 also serves as a corepressor of the transcription factor HIF1 alpha for regulating the expression of multiple glycolytic genes to control glucose homeostasis, and is required for normal IGF1 serum levels. SIRT6 play critical roles in maintaining telomere integrity, fine-tuning aging-associated gene expression programs, preventing genomic instability, and maintaining metabolic homeostasis, thus impacting on several pathways relevant for cancer, metabolism, aging, cellular senescence and apoptosis.

Synonyms:

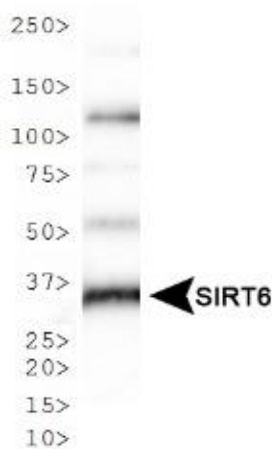
SIR2L6

Note:

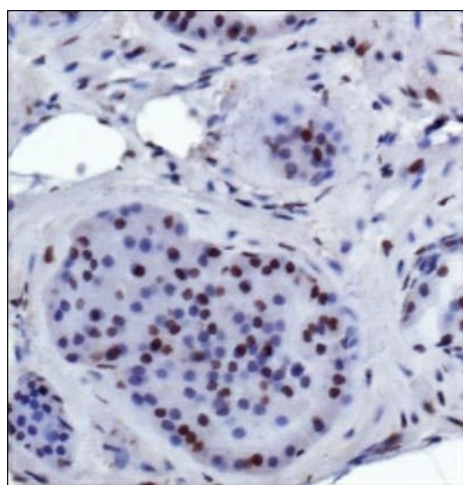
This SIRT6 antibody is useful for Western blot and Immunohistochemistry paraffin embedded sections. In Western blot a band is seen at ~37 kDa representing SIRT6, and a non-specific higher MW band can be seen at ~61 kDa. This antibody does not appear to detect the human protein in Western blot. In IHC-P, staining was observed in the nucleus of mouse testis. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 23899523)

Protein Families:

Druggable Genome, Transcription Factors

Product images:

Western Blot: SIRT6 Antibody TA336289 - WB analysis of SIRT6 in NIH/3T3 cell lysate.



Immunohistochemistry: SIRT6 Antibody
TA336289 - SIRT6 antibody was tested in mouse
testis using DAB with hematoxylin counterstain.