
Product Name: SIRT6 (1009) Rabbit Monoclonal Antibody**Catalog #: AMRe17919**

For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,IP
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.5mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:200,ICC/IF 1:100-1:200,IP 1:20-1:50
Molecular Weight	39kDa

Antigen Information

Gene Name	SIRT6
Alternative Names	SIR2L6; SIR2-like protein 6; NAD-dependent protein deacetylase sirtuin-6; Regulatory protein SIR2 homolog 6; Sirtuin 6;
Gene ID	51548.0
SwissProt ID	Q8N6T7
Immunogen	A synthetic peptide of human SIRT6

Background

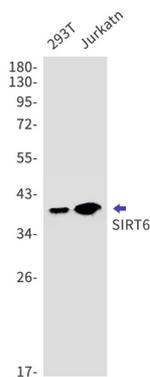
The Silent Information Regulator (Sir2) family of genes is a highly conserved group of genes that encode nicotinamide adenine

dinucleotide (NAD)-dependent protein deacetylases, also known as class III histone deacetylases. SirT6, a mammalian homolog of Sir2, is a nuclear, chromatin-associated protein that promotes the normal maintenance of genome integrity mediated by the base excision repair (BER) pathway. NAD-dependent protein deacetylase involved in various processes including telomere maintenance and gene expression, and consequently has roles in genomic stability, cell senescence and apoptosis (PubMed:18337721, PubMed:19135889, PubMed:19625767, PubMed:21362626). Has very weak deacetylase activity and can bind NAD(+) in the absence of acetylated substrate (PubMed:21362626). Has deacetylase activity towards histone H3K9Ac and H3K56Ac (PubMed:19625767, PubMed:21362626). Modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle (PubMed:19625767). May also be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance (PubMed:18337721). Deacetylates histone H3K9Ac at NF-kappa-B target promoters and may down-regulate the expression of a subset of NF-kappa-B target genes (PubMed:21362626). Deacetylation of nucleosomes interferes with RELA binding to target DNA (PubMed:19135889). Acts as a corepressor of the transcription factor Hif1a to control the expression of multiple glycolytic genes to regulate glucose homeostasis (By similarity). Required for normal IGF1 serum levels and normal glucose homeostasis (By similarity). Regulates the production of TNF protein (By similarity). Has a role in the regulation of life span (By similarity).

Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blot detection of SIRT6 in 293T, Jurkat cell lysates using SIRT6 antibody (1:1000 diluted).