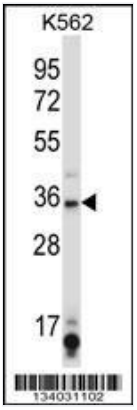
SIRT6 Antibody – Rabbit Polyclonal

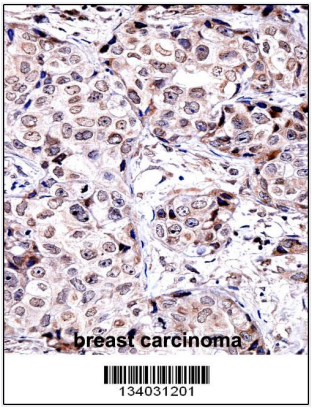
PRODUCT OVERVIEW

Product Name	SIRT6, Polyclonal Antibody
Full Product Name	SIRT6, CT (SIRT6, SIR2L6, NAD-dependent protein deacetylase sirtuin-6, Regulatory protein SIR2 homolog 6, SIR2-like protein 6) (Azide free) (HRP)
Product Gene Name	anti-SIRT6 antibody
Product Synonym Names	SIRT6; SIR2L6; NAD-dependent protein deacetylase sirtuin-6; Regulatory protein SIR2 homolog 6; SIR2-like protein 6
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	~66 kDa
Chromosome Location	Chromosome: 19; NC_000019.9 (4174106..4182596, complement). Location: 19p13.3
OMIM	606211
3D Structure	ModBase 3D Structure for Q8N6T7
Immunogen	SIRT6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 275-305 amino acids from the C-terminal region of human SIRT6.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-SIRT6 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-SIRT6 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-SIRT6 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-SIRT6 antibody	NAD-dependent protein deacetylase. Has deacetylase activity towards 'Lys-9' and 'Lys-56' of histone H3. 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. May be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance. Required for genomic stability. Required for normal IGF1 serum levels and normal glucose homeostasis. Modulates cellular senescence and apoptosis. Regulates the production of TNF protein (By similarity).
Other Notes	Small volumes of anti-SIRT6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SIRT6 purchase	MBS6347839 is an antibody targeting SIRT6. Also known as SIRT6, CT (SIRT6, SIR2L6, NAD-dependent protein deacetylase sirtuin-6, Regulatory protein SIR2 homolog 6, SIR2-like protein 6) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SIRT6 antibody
SIRT6 Antibody (C-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the SIRT6 antibody detected the SIRT6 protein (arrow).



Immunohistochemistry (IHC) of anti-SIRT6 antibody
SIRT6 Antibody (C-term) (AP14024b)immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SIRT6 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIRT6. It may not necessarily be applicable to this product.

NCBI GI #	300797576
NCBI GeneID	51548
NCBI Accession #	NP_057623.2
NCBI Related Accession #	NP_001180214.1
UniProt Primary Accession #	Q8N6T7
UniProt Secondary Accession #	O75291; Q6IAF5; Q6PK99; Q8NCD2; Q9BSI5; Q9BWP3; Q9NRC7; Q9UQD1; B2RCD0
UniProt Related Accession #	Q8N6T7
GenBank Nucleotide #	NM_016539
NCBI Official Full Name	Homo sapiens sirtuin 6 (SIRT6), transcript variant 1, mRNA
NCBI Official Synonym Full Names	sirtuin 6
NCBI Official Symbol	SIRT6
NCBI Official Synonym Symbols	SIR2L6
UniProt Protein Name	NAD-dependent protein deacetylase sirtuin-6
UniProt Synonym Protein Names	Regulatory protein SIR2 homolog 6; SIR2-like protein 6

Protein Family	NAD-dependent protein deacetylase
UniProt Gene Name	SIRT6
UniProt Synonym Gene Names	SIR2L6
UniProt Entry Name	SIR6_HUMAN
NCBI Protein Information	NAD-dependent protein deacetylase sirtuin-6; sirtuin type 6; SIR2-like protein 6; sir2-related protein type 6; regulatory protein SIR2 homolog 6; NAD-dependent deacetylase sirtuin-6
NCBI Summary for SIRT6	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. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jul 2010]
UniProt Comments for SIRT6	SIRT6: NAD-dependent protein deacetylase. Has deacetylase activity towards histone H3K9Ac and H3K56Ac. Modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. Deacetylates histone H3K9Ac at NF-kappa-B target promoters and may down-regulate the expression of a subset of NF- kappa-B target genes. Acts as a corepressor of the transcription factor HIF1A to control the expression of multiple glycolytic genes to regulate glucose homeostasis. Required for genomic stability. Regulates the production of TNF protein. Has a role in the regulation of life span. Deacetylation of nucleosomes interferes with RELA binding to target DNA. May be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance. Required for genomic stability. Required for normal IGF1 serum levels and normal glucose homeostasis. Modulates cellular senescence and apoptosis. On DNA damage, promotes DNA end resection via deacetylation of RBBP8. Has very weak deacetylase activity and can bind NAD(+) in the absence of acetylated substrate. Interacts with RELA. Interacts with RBBP8; the interaction deacetylates RBBP8. Belongs to the sirtuin family. Class IV subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Deacetylase; EC 2.4.2.31; EC 3.5.1.-; Transferase Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; nuclear telomeric heterochromatin; nucleolus; nucleus Molecular Function: NAD(P)+-protein-arginine ADP-ribosyltransferase activity; protein binding; NAD-dependent histone deacetylase activity (H3-K9 specific); zinc ion binding; NAD-dependent histone deacetylase activity; chromatin binding; NAD+ ADP-ribosyltransferase activity Biological Process: protein amino acid ADP-ribosylation; histone deacetylation
Research Articles on SIRT6	**1.** Data indicate that miR-766 regulates SIRT6 expression posttranscriptionally.
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