

Rabbit anti-Human, Rat SIRT1 Polyclonal Antibody | anti-SIRT1 antibody

SIRT1 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36782	Rabbit	Human, Rat	Chromatin Immunoprecipitation, Immunoprecipitation, Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot

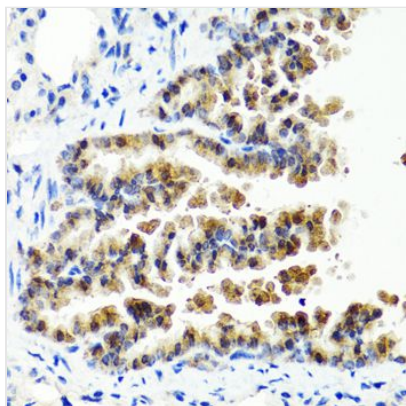
PRODUCT SYNONYMS

SIRT1; Polyclonal Antibody; SIRT1 Polyclonal Antibody; SIR2L1; anti-SIRT1 antibody

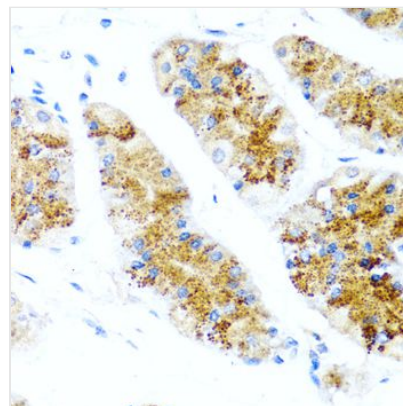
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	747
Applicable Applications for anti-SIRT1 antibody	ChIP (Chromatin immunoprecipitation), IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Route	Synthetic Peptide
Immunogen	C term -peptide of human SIRT1
Calculated Molecular Weight	82kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

IMAGES


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse lung using SIRT1 antibody at dilution of 1:100 (40x lens).


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human stomach using SIRT1 antibody at dilution of 1:100 (40x lens).

ADDITIONAL INFORMATION

Related Product Information for anti-SIRT1 antibody	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. The first discovered and best characterized of these genes is Saccharomyces cerevisiae SIR2, which is involved in silencing of mating type loci, telomere maintenance, DNA damage response, and cell aging (1). SirT1, the mammalian ortholog of Sir2, is a nuclear protein implicated in the regulation of many cellular processes, including apoptosis, cellular senescence, endocrine signaling, glucose homeostasis, aging, and longevity. Targets of SirT1 include acetylated p53 (2,3), p300 (4), Ku70 (5), forkhead (FoxO) transcription factors (5,6), PPARgamma (7), and the PPARgamma coactivator-1alpha (PGC-1alpha) protein (8). Deacetylation of p53 and FoxO transcription factors represses apoptosis and increases cell survival (2,3,5,6). Deacetylation of PPARgamma and PGC-1alpha regulates the gluconeogenic/glycolytic pathways in the liver and fat mobilization in white adipocytes in response to fasting (7,8). SirT1 deacetylase activity is inhibited by nicotinamide and activated by resveratrol. In addition, SirT1 activity may be regulated by phosphorylation, since it is phosphorylated on Ser27 and Ser47 in vivo, however, the function of these phosphorylation sites has not yet been determined (9).
Product Categories/Family for anti-SIRT1 antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	38258633
NCBI GeneID	23411
UniProt Accession #	Q96EB6; Q2XNF6; Q5JVQ0; Q9GZR9; Q9Y6F0
Molecular Weight	747
NCBI Official Full Name	NAD-dependent protein deacetylase sirtuin-1
NCBI Official Synonym Full Names	sirtuin 1
NCBI Official Symbol	SIRT1
NCBI Official Synonym Symbols	SIR2L1
NCBI Protein Information	NAD-dependent protein deacetylase sirtuin-1; hSIR2; hSIRT1; SIR2alpha; sir2-like 1; sirtuin type 1; SIR2-like protein 1; regulatory protein SIR2 homolog 1; NAD-dependent deacetylase sirtuin-1
UniProt Protein Name	NAD-dependent protein deacetylase sirtuin-1
UniProt Gene Name	SIRT1
UniProt Synonym Gene Names	SIR2L1; hSIRT1; hSIR2; 75SirT1
UniProt Entry Name	SIR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/sirt1-antibody-chromatin-immunoprecipitation-immunoprecipitation-immunofluorescence-immunohistochemistry-western-blot-elisa/36782>