

Cat. No:	AB-82681
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 448-747 of human SIRT1.
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200 Immunofluorescence: 1:50 - 1:200 Immunoprecipitation: 1:50 - 1:100
Molecular Weight:	130kDa
Purification:	Aff. Pur.
Synonyms:	SIR2;SIR2L1;SIR2alpha;SIRT1;sirtuin 1

Background:

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 I of the sirtuin family. Alternative splicing results in multiple transcript variants.

Form:

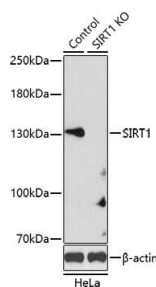
Liquid

Buffer:

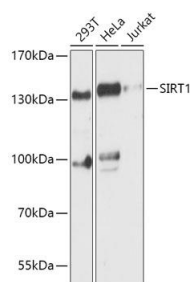
PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Storage:

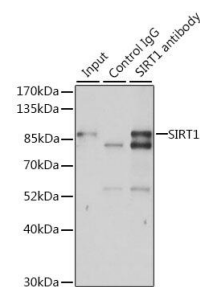
Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts from normal (control) and SIRT1 knockout HeLa cells, using SIRT1 antibody at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in

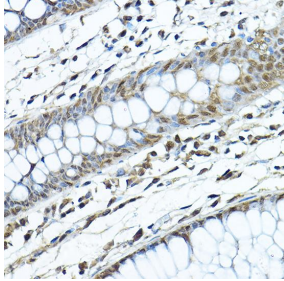


Western blot analysis of extracts of various cell lines, using SIRT1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in



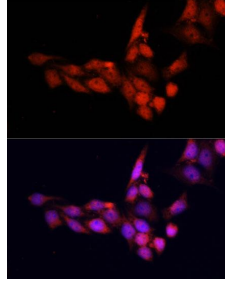
Immunoprecipitation analysis of 200ug extracts of Jurkat cells, using 3 ug SIRT1 antibody.
Western blot was performed from the immunoprecipitate using SIRT1 antibody at a dilution of 1:1000.

TBST.
Detection: ECL West Pico Plus.
Exposure time: 10s.



Immunohistochemistry of paraffin embedded human colon using SIRT1 Rabbit pAb at dilution of 1:200 (40x lens).

TBST. Detection: ECL West Pico Plus.
Exposure time: 30s.



Immunofluorescence analysis of HeLa cells using SIRT1 antibody at dilution of 1:100.
Blue: DAPI for nuclear staining.

References

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal: Journal of Pineal Research

Application: WB

IF: 15.22

Species: Homo sapiens, Mus musculus

PMID: 31469445

Title: Melatonin/PGC1A/UCP1 promotes tumor slimming and represses tumor progression by initiating autophagy and lipid browning.

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal: Science Advances

Application: WB, ChIP

IF: 12.8

Species: Mus musculus

PMID: 32270032

Title: B cell Sirt1 deacetylates histone and non-histone proteins for epigenetic modulation of AID expression and the antibody response

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal: Cell Proliferation

Application: WB

IF: 5.03

Species: Rattus norvegicus

PMID: 32020692

Title: Resveratrol protects the integrity of alveolar epithelial barrier via SIRT1/PTEN/p-Akt pathway in methamphetamine-induced chronic lung injury

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal: BMC Nephrology

Application: WB

IF:2.08

Species:Rattus norvegicus

PMID:32398108

Title:Kidney-targeted baicalin-lysozyme conjugate ameliorates renal fibrosis in rats with diabetic nephropathy induced by streptozotocin

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal:Autophagy

Application:WB

IF:11.05

Species:Danio rerio

PMID:30205735

Title:CERKL regulates autophagy via the NAD-dependent deacetylase SIRT1

References for SIRT1 Rabbit pAb.

Product: SIRT1 Rabbit pAb

Journal:Aging-us

Application:WB, IF

IF:5.515

Species:Homo sapiens

PMID:31881011

Title:Hydrogen sulfide attenuates mitochondrial dysfunction-induced cellular senescence and apoptosis in alveolar epithelial cells by upregulating sirtuin 1.

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal:Front Pharmacol

Application:WB

IF:4.22

Species:Mus musculus

PMID:32848753

Title:Trimetazidine Inhibits Renal Tubular Epithelial Cells to Mesenchymal Transition in Diabetic Rats via Upregulation of Sirt1

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal:Bioengineered

Application:WB

IF:2.2

Species:Homo sapiens

PMID:33323018

Title:Catalpol ameliorates psoriasis-like phenotypes via SIRT1 mediated suppression of NF- κ B and MAPKs signaling pathways

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal:BMC Genetics

Application:WB

IF:2.54

Species:Sus scrofa

PMID:32171241

Title:miR-34a regulates adipogenesis in porcine intramuscular adipocytes by targeting ACSL4

References for SIRT1 Rabbit pAb

Product: SIRT1 Rabbit pAb

Journal:J Inflamm Res

Application:WB

IF: Species:Rattus norvegicus

PMID:33623411

Title: ecuridaca inappendiculata-Derived Xanthones Protected Joints from Degradation in Male Rats with Collagen-Induced Arthritis by Regulating PPAR- γ Signaling

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