

# SIRT1 Rabbit pAb

Catalog No.: A17307 **9 Publications**

## Basic Information

**Observed MW**

120kDa

**Calculated MW**

82kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IF/ICC

**Cross-Reactivity**

Human, Mouse, Rat

## 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.

## Recommended Dilutions

**WB** 1:500 - 1:2000**IF/ICC** 1:50 - 1:200

## Immunogen Information

**Gene ID**

23411

**Swiss Prot**

Q96EB6

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 448-747 of human SIRT1 (NP\_036370.2).

**Synonyms**

SIR2; SIR2L1; SIR2alpha; SIRT1

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

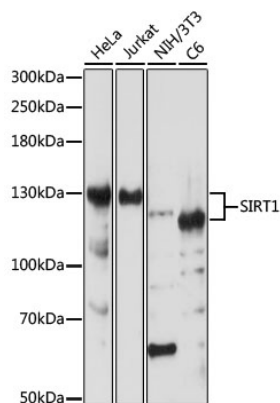
Affinity purification

**Storage**

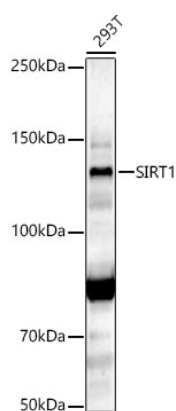
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

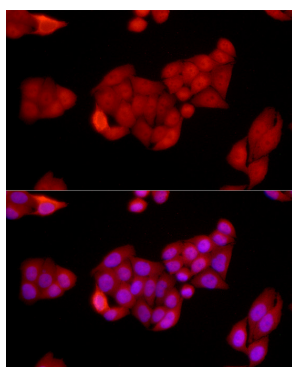
## Validation Data



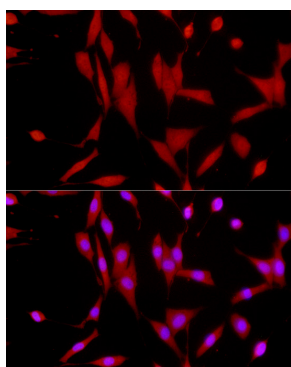
Western blot analysis of various lysates using SIRT1 Rabbit pAb (A17307) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.



Western blot analysis of lysates from 293T cells, using SIRT1 Rabbit pAb (A17307) at 1:2000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.



Immunofluorescence analysis of HeLa cells using SIRT1 Rabbit pAb (A17307) at dilution of 1:200 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using SIRT1 Rabbit pAb (A17307) at dilution of 1:200 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.