Product datasheet

Anti-SIRT1 Antibody

Catalog Number: *A00018-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-SIRT1 Antibody
Gene Name	SIRT1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, ICC/IF, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human SIRT1 recombinant protein (Position: Y142-H533). Human SIRT1 shares 96.9% and 99.4% amino acid (aa) sequence identity with mouse and rat SIRT1, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	110-120 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Sirtuin 1, also known as SIR2L1 or SIRT1, is a protein that in humans is encoded by the SIRT1 gene. It is mapped to 10q21.3. Sirtuin 1 is a member of the sirtuin family of proteins, homologs of the Sir2 gene in S. cerevisiae. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. Sirtuin 1 is downregulated in cells that have high insulin resistance and inducing its expression increases insulin sensitivity, suggesting the molecule is associated with improving insulin sensitivity. Furthermore, Sirtuin 1 was shown to de-acetylate and affect the activity of both members of the PGC1-alpha/ERR-alpha complex, which are essential metabolic regulatory transcription factors.

Reference

Anti-SIRT1 Antibody被引用在17文献中。

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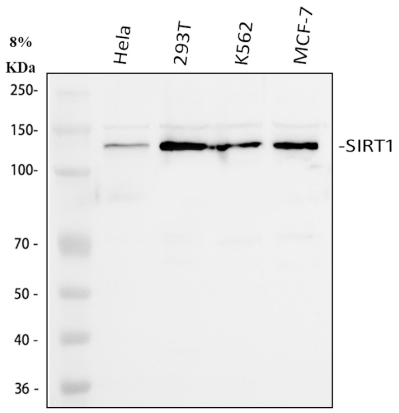
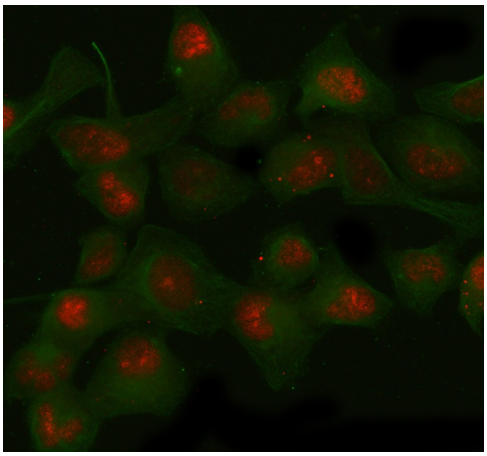
Selected Validation Data



Western blot analysis of SIRT1 using anti-SIRT1 antibody (A00018-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: human K562 whole cell lysates,
Lane 4: human MCF-7 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SIRT1 antigen affinity purified polyclonal antibody (A00018-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SIRT1 at approximately 120 kDa. The expected band size for SIRT1 is at 82 kDa.



IF analysis of SIRT1 using anti-SIRT1 antibody (A00018-1) and anti-Beta Tubulin antibody (M01857-3).
SIRT1 was detected in an immunocytochemical section of Hela cells. The section was incubated with rabbit anti-SIRT1 Antibody (A00018-1) at a dilution of 1:100. Cy3-Conjugated Anti-rabbit IgG Secondary Antibody (Red) (Catalog # BA1032) and Dylight488-conjugated Anti-mouse IgG Secondary Antibody (Green) (Catalog # BA1126) were used as secondary antibody.