Product datasheet Anti-SIRT1 Antibody Catalog Number: PB0173



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information	
Product Name	Anti-SIRT1 Antibody
Gene Name	SIRT1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF
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: R112-K311). Human SIRT1 shares 90% amino acid (aa) sequence identity with mouse SIRT1.
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

Storage

12 months from date of receipt, -20°C 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

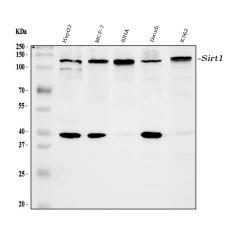
Anti-SIRT1 Antibody被引用在11文献中。



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Selected Validation Data



Western blot analysis of anti- SIRT1 antibody (PB0173). The sample well of each lane was loaded with 30ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,

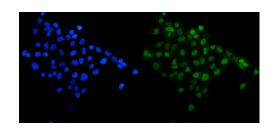
Lane 2: human MCF-7 whole cell lysates,

Lane 3: human SiHa whole cell lysates,

Lane 4: human Daudi whole cell lysates,

Lane 5: human K562 whole cell lysates.

Use rabbit anti- SIRT1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for SIRT1 at approximately 120KD. The expected band size for SIRT1 is at 82KD.



IF analysis of SIRT1 using anti-SIRT1 antibody (PB0173). SIRT1 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-SIRT1 Antibody (PB0173) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).