

Basic Information

Product Name	Anti-SIRT1 Antibody	
Gene Name	SIRT1	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse ,rat	
Tested Application	WB, ICC/IF	
Contents	500ug/ml antibody with PBS , 0.02% NaN ₃ , 1mg BSA	
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	120KD	
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. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

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- α /ERR- α complex, which are essential metabolic regulatory transcription factors.

Reference

Anti-SIRT1 Antibody被引用在1文献中。

Selected Validation Data

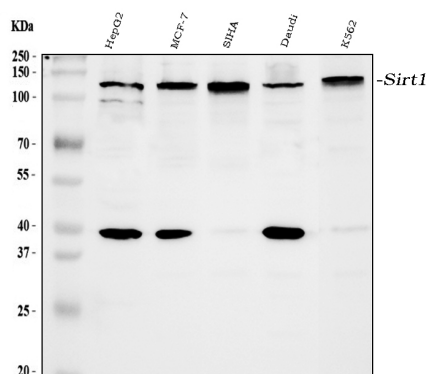


Figure 1. Western blot analysis of anti- SIRT1 antibody (PB0173).

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.

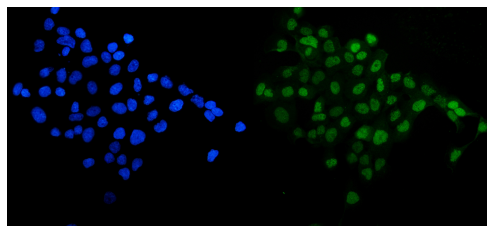


Figure 2. ICC analysis using anti- SIRT1 antibody (PB0173). was

detected in immersion fixed A431 cell line. Cells were stained using

the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody

(green)(Catalog#BA1127) and counterstained with DAPI (blue).