

## Basic Information

<b>Product Name</b>	Anti-SIRT1 (Phospho-T530) Antibody (Clone#HAI-19)
<b>Gene Name</b>	SIRT1
<b>Source</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human
<b>Tested Application</b>	WB
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	A synthesized peptide derived from human SIRT1
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Affinity-chromatography
<b>Observed MW</b>	110-120 kDa
<b>Dilution Ratios</b>	Western blot (WB):1:500-2000

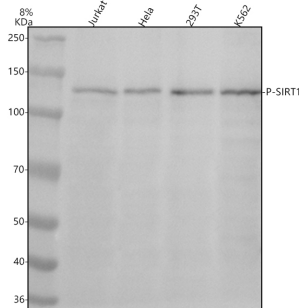
## Storage

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.

## Selected Validation Data

**Anti-SIRT1 (Phospho-T530) Antibody  
(Clone#HAI-19)****Catalog Number: BM4689**

Western blot analysis of anti-SIRT1 (Phospho-T530) antibody (BM4689).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Jurkat whole cell lysates,

Lane 2: human Hela whole cell lysates,

Lane 3: human 293T whole cell lysates,

Lane 4: human K562 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SIRT1 (Phospho-T530) antigen affinity purified monoclonal antibody (BM4689) 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 (Phospho-T530) at approximately 130 kDa. The expected band size for SIRT1 (Phospho-T530) is at 82 kDa.