

Basic Information

Product Name	Anti-SIRT1 Antibody (Clone#GG-19)		
Gene Name	SIRT1		
Source	Rabbit		
Clonality	Monoclonal		
Isotype	IgG		
Species Reactivity	human		
Tested Application	WB, IHC, ICC/IF, IP		
Contents	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.		
Immunogen	A synthesized peptide derived from human SIRT1 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.		
Concentration	500 ug/ml		
Purification	Affinity-chromatography		
Observed MW	110-120 kDa		
Dilution Ratios	Western blot (WB):	1:500-2000	
	Immunohistochemistry (IHC):	1:50-200	
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200	
	ImmunoPrecipitation (IP):	1:30	

Storage

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

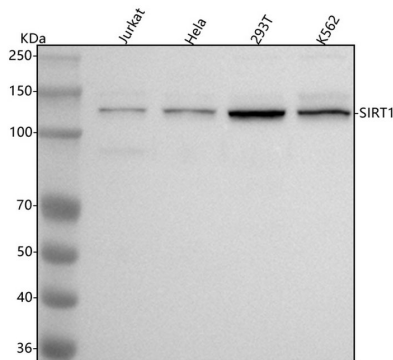
Background Information

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

Reference

Anti-SIRT1 Antibody (Clone#GG-19)被引用在2文献中。

Selected Validation Data



Western blot analysis of anti-SIRT1 antibody (BM3929). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

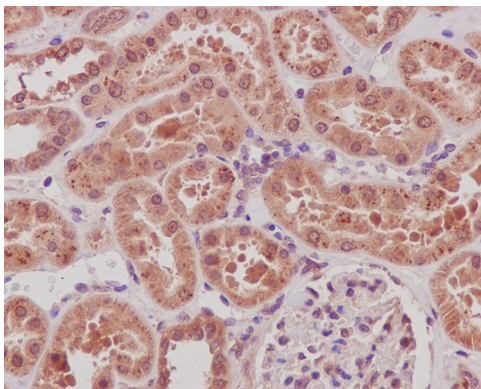
Lane 1: human Jurkat whole cell lysates,

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 antigen affinity purified monoclonal antibody (BM3929) 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.



Immunohistochemical analysis of paraffin-embedded human kidney, using SIRT1 Antibody.

Product datasheet

Anti-SIRT1 Antibody (Clone#GG-19)

Catalog Number: BM3929



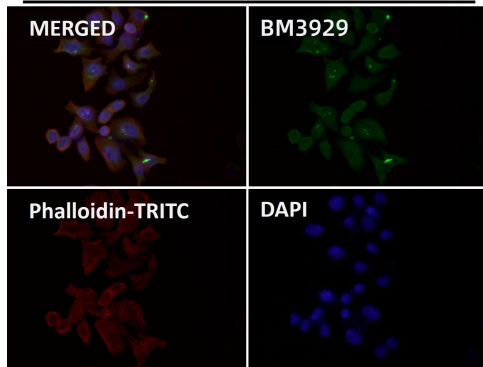
antibody and ELISA experts

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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

HeLa



Immunofluorescent analysis using the Antibody.