Product datasheet

Anti-SIRT1 (Phospho-S47) Antibody

Catalog Number: BM4507



BOSTER BIOLOGICAL TECHNOLOGY

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Basic Information	
Product Name	Anti-SIRT1 (Phospho-S47) Antibody
Gene Name	SIRT1
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, ICC/IF
Contents	500 ug/ml;Rabbit lgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Immunogen	A synthesized peptide derived from human Phospho-SIRT1 (S47)
concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	110-120KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:20-100 Immunocytochemistry/Immunofluorescence(ICC/IF):1:20-100

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

Selected Validation Data

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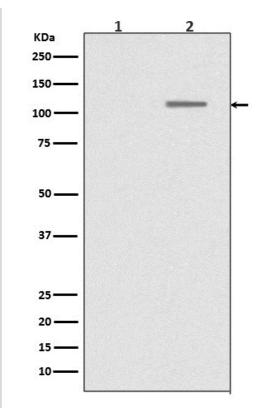
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Western blot analysis of Phospho-SIRT1 (S47) expression in (1) HEK293 cell lysate; (2) HEK293 cell lysate treated with LP.