Product datasheet

# Anti-SIRT1 (Phospho-S47) Antibody (Clone#FDA-19)

**Catalog Number: *BM4507***

BOSTER
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-SIRT1 (Phospho-S47) Antibody (Clone#FDA-19) |
| **Gene Name** | SIRT1 |
| **Source** | Rabbit |
| **Clonality** | Monoclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human |
| **Tested Application** | WB, IHC, ICC/IF |
| **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 Phospho-SIRT1 (S47) |
| **Concentration** | 500 ug/ml |
| **Purification** | Affinity-chromatography |
| **Observed MW** | 110-120 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-200<br>Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 |

## Storage

12 months from date of receipt，-20℃ 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

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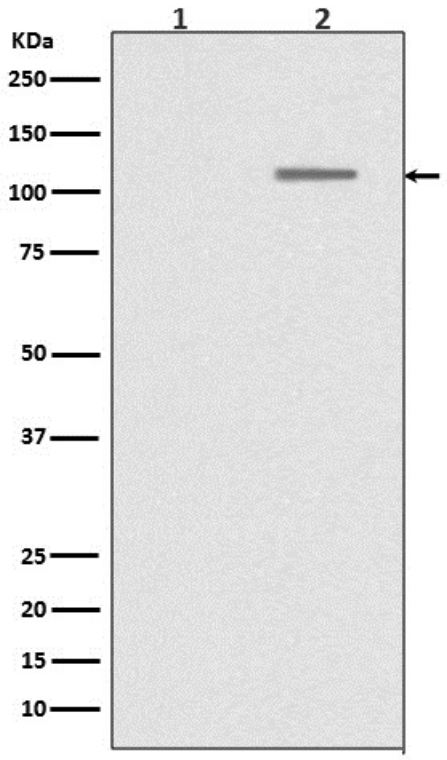
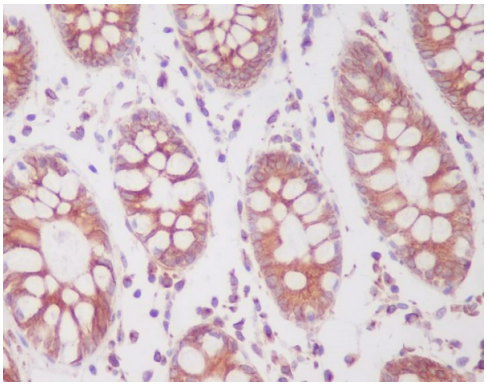



Western blot analysis of Phospho-SIRT1 (S47) expression in (1) HEK293 cell lysate; (2) HEK293 cell lysate treated with LP.



Immunohistochemical analysis of paraffin-embedded human colon, using Phospho-SIRT1 (S47) Antibody.