Recombinant Phospho-SIRT1(Ser27) Monoclonal Antibody

catalog number: **AN302088L**

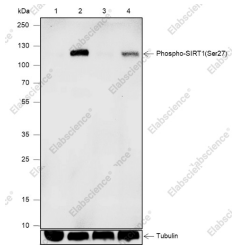
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	phosphorylated human SIRT1(Ser27) peptide
Host	Rabbit
Isotype	Rabbit IgG
Clone	C371709
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:1000
IF	1:50

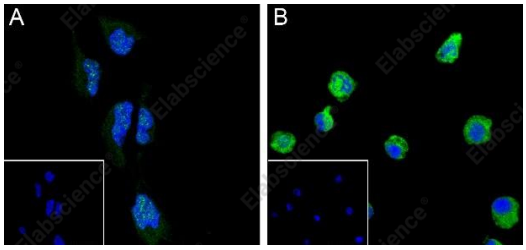
Data



Western Blot with Phospho-SIRT1(Ser27) Monoclonal Antibody at dilution of 1:1000. Lane 1-Lane 2: HEK-293+CA (-) (+), Lane 3-Lane 4: Jurkat+CA(-) (+)

Observed-MW:120 kDa

Calculated-MW:82 kDa



Immunofluorescent analysis of (4% Paraformaldehyde) fixed HEK-293+CalyculinA (-) (+) cells using anti-Phospho-SIRT1(Ser27) Monoclonal Antibody at dilution of 1:50.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

SIRT1 is a member of the Silent Information Regulator2 (SIR2) family, which is a highly conserved group of genes that encode nicotinamide adenine dinucleotide (NAD)-dependent protein deacetylases, also known as class III histone deacetylases. The first discovered and best characterized of these genes is Saccharomyces cerevisiae SIR2, which is involved in silencing of mating type loci, telomere maintenance, DNA damage response, and cell aging. SirT1, the mammalian ortholog of Sir2, is a nuclear protein implicated in the regulation of many cellular processes, including apoptosis, cellular senescence, endocrine signaling, glucose homeostasis, aging, and longevity. Targets of SirT1 include acetylated p53, p300, Ku70, forkhead (FoxO) transcription factors, PPARγ, and the PPARγ coactivator-1α (PGC-1α) protein. SirT1 deacetylase activity is inhibited by nicotinamide and activated by resveratrol. In addition, SirT1 activity may be regulated by phosphorylation, as it is phosphorylated at Ser27 and Ser47 in vivo; however, the function of these phosphorylation sites has not yet been determined.

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