
SIRT3 Rabbit pAb

Catalog Number: bs-55199R

Target Protein: SIRT3

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-1000), IHC-P (1:20-50), IHC-F (1:20-50), IF (1:100-500), ICC/IF (1:100)

Reactivity: Human, Mouse, Rat

Predicted MW: 28/43 kDa

Entrez Gene: 23410

Swiss Prot: Q9NTG7

Source: KLH conjugated synthetic peptide derived from human SIRT3: 300-399/399.

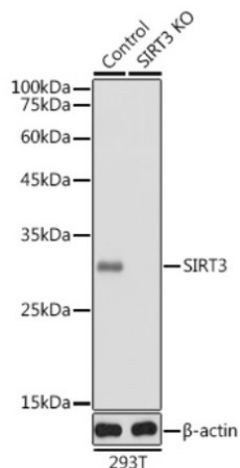
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

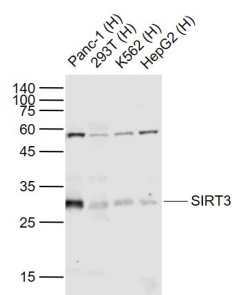
Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.

Background: SIRT3 encodes a member of the sirtuin family of class III histone deacetylases, homologs to the yeast Sir2 protein. The encoded protein is found exclusively in mitochondria, where it can eliminate reactive oxygen species, inhibit apoptosis, and prevent the formation of cancer cells. SIRT3 has far-reaching effects on nuclear gene expression, cancer, cardiovascular disease, neuroprotection, aging, and metabolic control. [provided by RefSeq, May 2019]

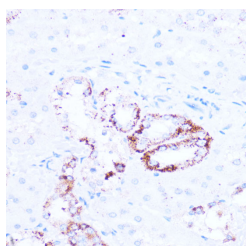
VALIDATION IMAGES



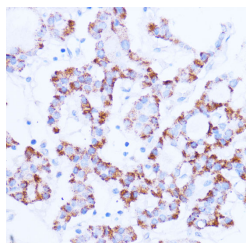
Sample: Lane 1: 293T (Human) Cell Lysate at 25 ug Lane 2: SIRT3 knockout (KO) 293T (Human) Cell Lysate at 25 ug Primary: Anti-SIRT3 (bs-55199R) at 1/1000 dilution Secondary: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution Predicted band size: 28 kD Observed band size: 30 kD



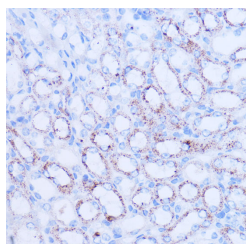
Sample: Lane 1: Panc-1 (Human) Cell Lysate at 30 ug Lane 2: 293T (Human) Cell Lysate at 30 ug Lane 3: K562 (Human) Cell Lysate at 30 ug Lane 4: HepG2 (Human) Cell Lysate at 30 ug Primary: Anti-SIRT3 (bs-55199R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 28 kD Observed band size: 28 kD



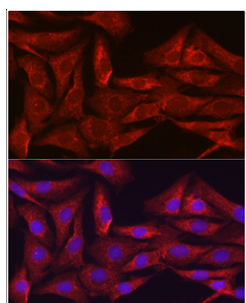
Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SIRT3) Polyclonal Antibody, Unconjugated (bs-55199R) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human thyroid cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SIRT3) Polyclonal Antibody, Unconjugated (bs-55199R) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SIRT3) Polyclonal Antibody, Unconjugated (bs-55199R) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



NIH/3T3 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (KO Validated)SIRT3 polyclonal Antibody, Unconjugated (bs-55199R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=3.7] Xu Hao. et al. Idebenone Antagonizes P53-Mediated Neuronal Oxidative Stress Injury by Regulating CD38-SIRT3 Protein Level. NEUROCHEM RES. 2024 Jun;;1-14 WB ; Mouse . 38862726

[IF=4.1] Shasha Chen. et al. Unraveling the mechanism of quercetin alleviating BHPF-induced apoptosis in epithelioma papulosum cyprini cells: SIRT3-mediated mitophagy. FISH SHELLFISH IMMUN. 2024 Nov;154:109907 WB ; Fish . 39278380