

**bs-55199R****[ Primary Antibody ]****SIRT3 Rabbit pAb****Bioss**  
**ANTIBODIES**

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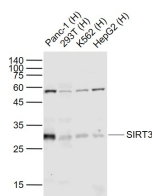
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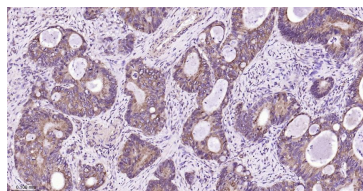
400-901-9800

**— DATASHEET —**

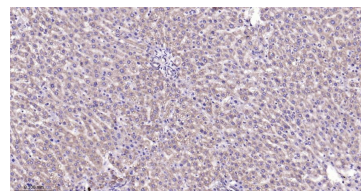
|   |                      |  |
|---|----------------------|--|
| <b>Host:</b> Rabbit   | <b>Isotype:</b> IgG  | <b>Applications:</b> <b>WB</b> (1:500-1000)<br><b>IHC-P</b> (1:50-200)<br><b>IHC-F</b> (1:50-200)<br><b>IF</b> (1:50-200)<br><br><b>Reactivity:</b> Human, Mouse, Rat<br><br><b>Predicted MW.:</b> 28/43 kDa<br><br><b>Subcellular Location:</b> Cytoplasm |
| <b>Clonality:</b> Polyclonal  |                      |  |
| <b>GeneID:</b> 23410  | <b>SWISS:</b> Q9NTG7 |  |
| <b>Target:</b> SIRT3  |                      |  |
| <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human SIRT3: 300-399/399.   |                      |  |
| <b>Purification:</b> affinity purified by Protein A   |                      |  |
| <b>Concentration:</b> 1mg/ml  |                      |  |
| <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>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.  |                      |  |
| <b>Background:</b> 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: 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 Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SIRT3 Polyclonal Antibody, Unconjugated (bs-55199R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SIRT3 Polyclonal Antibody, Unconjugated (bs-55199R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

**— SELECTED CITATIONS —**

- **[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