bs-2257R

[Primary Antibody]

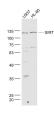
SIRT1 Rabbit pAb

Bio'ss ANTIBODIES

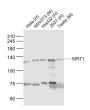
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			400-901-9800
- DATASHEI Host:	E I Rabbit	lsotype: IgG	Applications WB (1:500-2000)
Clonality:	Polyclonal	-	: IHC-P (1:100-500)
GenelD:		SWISS: Q96EB6	IHC-F (1:100-500) IF (1:100-500)
Target:			Flow-Cyt (lug/Test)
Immunogen: KLH conjugated synthetic peptide derived from human SIRT1: 551-650/747.			Reactivity: Human, Mouse (predicted: Rabbit, Pig, Dog,
Purification:	affinity purified by Protein A		Horse)
Concentration: 1mg/ml			Predicted
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.			Predicted MW.: ^{81 kDa} Subcellular
	This gene encodes a member of the to the yeast Sir2 protein. Members by a sirtuin core domain and group human sirtuins have not yet been proteins are known to regulate ep- recombination of rDNA. Studies suf- function as intracellular regulator ribosyltransferase activity. The pr- in class I of the sirtuin family. Alter transcript variants. Function : Sirt inactive 75SirT1 may be involved involved in protecting chondrocyd with cytochrome C and interfering Found in a complex with PCAF and complex, composed of SIRT1, SUN HEY2 and PML. Interacts with RPS KIAA1967/DBC1 (via N-terminus); between SIRT1 and p53/TP53. Intri- induces the dissociation of SIRT1 activity. Interacts with MYCN, NR1 NR0B2, PPARG, NCOR, IRS1, IRS2 interaction occurs under nutrient interaction mediates the associat complex which is specific as an as variants is not found. Interacts with Nucleus, PML body. Cytoplasm. N its interaction with PML. Colocaliz found in nucleolus, nuclear euchr membrane. Shuttles between nuc fragment: Cytoplasm. Mitochondr expressed. Post-translational moor lysine residues; methylation is en- dispensable for deacetylase activity Phosphorylated by STK4/MST1, re p53/TP53 deacetylation. Phosphorylati- activates deacetylase activity and Phosphorylation by mammaliant t (mTORC1) at Ser-47 inhibits deace CaMK2, leading to increased p53/ deacetylation activity (By similari implicating MAPK9 is linked to pro- for some phosphosites: Ser-159/S Proteolytically cleaved by cathepe- yield catalytic inactive but stable- nitrosylated by GAPDH, leading to the spression of the site of the source of the site of the site stable of deacetylase activity and Phosphorylation by mammaliant t (mTORC1) at Ser-47 inhibits deace CaMK2, leading to increased p53/ deacetylation activity (By similariti implicating MAPK9 is linked to pro- for some phosphosites: Ser-159/S Proteolytically cleaved by cathepe- yield catalytic inactive but stable-	otein encoded by this gene is included rnative splicing results in multiple T1 75 kDa fragment: catalytically in regulation of apoptosis. May be tes from apoptotic death by associating gwith apoptosome assembly. Subunit : d MYOD1. Component of the eNoSC /39H1 and RRP8. Interacts with HES1, 19BP1/AROS. Interacts with the interaction disrupts the interaction eracts with SETD7; the interaction from p53/TP53 and increases p53/TP53 12, CREBZF, TSC2, TLE1, FOS, JUN, and NMNAT1. Interacts with SUZ12; the ion with the PRC4 histone methylation sociation with PCR2 and PCR3 complex th HIV-1 tat. Subcellular Location : ote=Recruited to the nuclear bodies via ed with APEX1 in the nucleus. May be omatin, heterochromatin and inner cleus and cytoplasm. SirtT1 75 kDa ion. Tissue Specificity : Widely difications : Methylated on multiple hanced after DNA damage and is ity toward p53/TP53. Phosphorylated. esulting in inhibition of SIRT1-mediated orylation by MAPK8/JNK1 at Ser-27, ased nuclear localization and on at Thr-530 by DYRK1A and DYRK3 promotes cell survival. arget of rapamycin complex 1 etylation activity. Phosphorylated by TP53 and NF-kappa-B p65/RELA ty). Phosphorylation at Ser-27 otein stability. There is some ambiguity er-162 and Thr-544/Ser-545. sin B upon TNF-alpha treatment to SirtT1 75 kDa fragment (75SirT1). S- inhibit the NAD-dependent protein). Similarity : Belongs to the sirtuin	Subcellular Location: Cytoplasm ,Nucleus

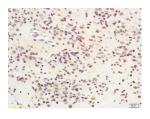
VALIDATION IMAGES



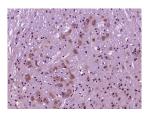
Sample: U937(Human) Cell Lysate at 30 ug HL-60(Human) Cell Lysate at 30 ug Primary: Anti-SIRT1 (bs-2257R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 81 kD Observed band size: 120 kD



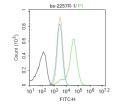
Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 3: HepG2 (Human) Cell Lysate at 30 ug Lane 4: 293T (Human) Cell Lysate at 30 ug Lane 5: Testis (Mouse) Lysate at 40 ug Primary: Anti-SIRT1 (bs-2257R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 116/95 kD Observed band size: 116 kD



Tissue/cell: human glioma tissue; 4% Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-SIRT1/sirtuin 1 Polyclonal Antibody, Unconjugated(bs-2257R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (SIRT1) Polyclonal Antibody, Unconjugated (bs-2257R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:HL-60, Primary Antibody (green line): Rabbit Anti-SIRT1 antibody (bs-2257R) Dilution: 1µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

- SELECTED CITATIONS -

- [IF=9.429] Wang, Daquan. et al. Protection of zero-valent iron nanoparticles against sepsis and septic heart failure. J NANOBIOTECHNOL. 2022 Dec;20(1):1-22 WB ;Mouse. 36064371
- [IF=8.5] Siyao Liu. et al. Phosphorylation-driven regulation of SIRT1 in muscle senescence: Insights from molecular dynamics simulation and experimental validation. INT J BIOL MACROMOL. 2025 May;306:141734 WB ;Mouse. 40057076
- [IF=6.633] Shuai Jiang. et al. Cardiac-specific overexpression of Claudin-5 exerts protection against myocardial ischemia and reperfusion injury. BBA-MOL BASIS DIS. 2022 Sep;:166535 COIP,WB ;MOUSE. 36058416
- [IF=6.7] Li-Hua Cao. et al. The microglial state transition as a novel mechanism by which fresh Baihe Dihuang decoction prevents depression by regulating SIRT1/HMGB1 signaling. PHYTOMEDICINE. 2025 Apr;:156718 IHC ;Mouse. 40220404
- [IF=6.7] Lijuan Bao. et al. Hexadecanamide alleviates Staphylococcus aureus-induced mastitis in mice by inhibiting inflammatory responses and restoring blood-milk barrier integrity. PLOS PATHOG. 2023 Nov;19(11):e1011764 WB; Mouse. 37948460