bs-0975R **[Primary Antibody]**

SP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6667 **SWISS:** P08047

Target: SP1

Immunogen: KLH conjugated synthetic peptide derived from human SP1: 701-785/785.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

Background: Profound changes in patterns of gene expression can result from relatively small changes in the concentrations of sequence specific transcription factors. Synergistic interaction between factors bound to different sites within a transcriptional control region is supported by the work of Courey et al. (1989). Sp1 is a sequence specific transcription factor that recognizes GGGGCGGGGC and closely related sequences, which are often referred to as GC boxes. Sp1 binds to GC box promoters elements and selectively activates mRNA synthesis from genes that contain functional recognition sites. SP1 can interact with G/C rich motifs from serotonin receptor promoter. Kadonaga et al. (1987) cloned the human Sp1 cDNA and showed that it has contiguous zinc finger motifs and requires zinc for sequence specific binding to DNA. Alternname： Sp1 transcription factor isoform a; TSFP1; TSFP 1; Specificity protein 1; Transcription factor Sp1.

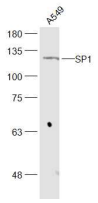
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human (predicted: Mouse, Rat, Pig, Sheep, Cow, Chicken, Dog)

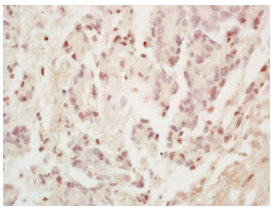
Predicted MW.: 81 kDa

Subcellular Location: Cytoplasm ,Nucleus

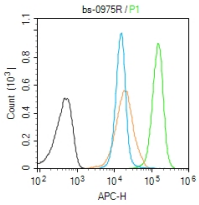
VALIDATION IMAGES



Sample: A549(Human) Cell Lysate at 30 ug
Primary: Anti-SP1 (bs-0975R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 81 kD
Observed band size: 111 kD



Paraformaldehyde-fixed, paraffin embedded (Human stomach 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 (TSFP1) Polyclonal Antibody, Unconjugated (bs-0975R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control (Black line):Molt4 (Black). Primary Antibody (green line): Rabbit Anti-SP1 antibody (bs-0975R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol 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=7.963]** Peng Duan. et al. Intronic miR-140-5p contributes to beta-cypermethrin-mediated testosterone decline. Sci Total Environ. 2022 Feb;806:150517 WB,IF ;Rat. 10.1016/j.scitotenv.2021.150517
- **[IF=6.1]** Cuifang Chang. et al. The orphan GPR50 receptor interacting with TβRI induces G1/S-phase cell cycle arrest via Smad3-p27/p21 in BRL-3A cells. BIOCHEM PHARMACOL. 2022 Aug;202:115117 WB ;Rat. 35671788
- **[IF=4.15]** Peng, Yanfei, et al. "Prostaglandin E2 induces Stromal cell-derived factor-1 expression in prostate stromal cells by activating Protein kinase A and transcription factor Sp1." The International Journal of Biochemistry & Cell Biology (2012). WB ;="Human". 23246486
- **[IF=4.4]** Yonghong Zheng. et al. MiR-24-3p modulates cardiac function in doxorubicin -induced heart failure via the Sp1/PI3K signaling pathway. CELL SIGNAL. 2024 Sep;:111407 WB ;Rat. 39278455
- **[IF=2.8]** Yang, J. H., et al. "Long-term persistent infection of HPV 16 E6 up-regulate SP1 and hTERT by inhibiting LKB1 in lung cancer cells." PloS one 12.8 (2017): e0182775. WB ;="Human". 28813465