

bs-0742R**[Primary Antibody]****CDKN1B/p27 KIP 1 Rabbit pAb****Bioss**
ANTIBODIES

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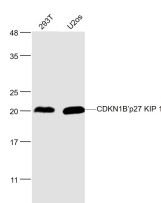
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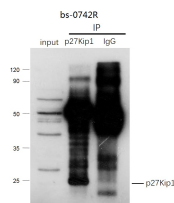
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 1027**SWISS:** P46527**Target:** CDKN1B/p27 KIP 1**Immunogen:** KLH conjugated synthetic peptide derived from human P27 kip1: 101-198/198.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

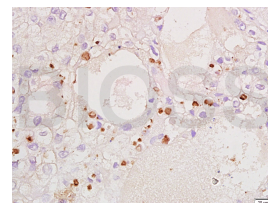
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Cell cycle progression is regulated by cyclins and their cognate Cdk. p27 KIP 1 is a cell cycle regulatory mitotic inhibitor of cdk activity. p27 KIP 1 is a candidate tumor suppressor gene, and has been proposed to function as a possible mediator of TGF beta induced G1 arrest. p27 KIP 1 is up regulated in response to antimitogenic stimuli. The increased protein expression of p27 results in cellular arrest by binding to cyclin/Cdk complexes such as cyclin D1/Cdk4. p27 Kip1 is regulated by phosphorylation on serine 10 (S10) and threonine 187 (T187). Phosphorylation by CDK2 on T187 results in ubiquitylation and degradation of p27 Kip 1; while phosphorylation by hKIS on S10 signals the nuclear export to the cytoplasm.**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:200-800)**Flow-Cyt** (1µg/Test)**Reactivity:** Human, Mouse, Rat
(predicted: Pig, Sheep, Chicken, Dog)**Predicted MW.:** 22 kDa**Subcellular Location:** Cytoplasm ,Nucleus**VALIDATION IMAGES**

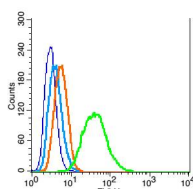
Sample: 293T(Human) Cell Lysate at 30 ug
U2os(Human) Cell Lysate at 30 ug
Primary: Anti-CDKN1B' p27 KIP 1 (bs-0742R) at 1/1000
dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kD
Observed band size: 22 kD



CDKN1B (p27Kip1) was immunoprecipitated from mouse kidney tissue with bs-0742R at 1/150 dilution. Western blot was performed from the immunoprecipitate using protein A/G beads. HRP Conjugated Goat anti-Rabbit IgG (Heavy Chain specific) was used as secondary antibody at 1:5000 dilution. Lane 1: mouse kidney tissue lysate 10 µg (Input). Lane 2: bs-0742R IP in mouse kidney tissue lysate. Lane 3: native rabbit IgG IP in mouse kidney tissue lysate (negative control). Secondary All lanes Goat anti-Rabbit IgG (Heavy Chain specific), HRP Conjugated, 1:5000



Tissue/cell: human ovary carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; 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-CDKN1B/P27kip1 Polyclonal Antibody, Unconjugated(bs-0742R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice. Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 1µg in 100µL 1X PBS containing 0.5% BSA(green).

— SELECTED CITATIONS —

- **[IF=7.3]** Wang Haining. et al. Integrative analysis identifies oxidative stress biomarkers in non-alcoholic fatty liver disease via machine learning and weighted gene co-expression network analysis. FRONT IMMUNOL. 2024 Feb;15: WB ;Mouse. 38476236
- **[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=4.82]** Gao, LiLi, et al. "Protein-Binding Function of RNA-Dependent Protein Kinase Promotes Proliferation through TRAF2/RIP1/NF-κB/c-Myc Pathway in Pancreatic β cells." Molecular Medicine 21.1 (2015): 154. WB ;="Mouse". 25715336
- **[IF=5.13]** Akizuki, Risa, et al. "Claudin-5, — 7, and — 18 suppress proliferation mediated by inhibition of phosphorylation of Akt in human lung squamous cell carcinoma." Biochimica et Biophysica Acta (BBA)-Molecular Cell Research (2016). WB ;="Human". 27884700
- **[IF=3.647]** Ali B et al. Control of preadipocyte proliferation, apoptosis and early adipogenesis by the forkhead transcription factor FoxO6Life Sci.2021 Jan 15;265:118858. WB ;Chicken. 33290791