

bs-3452R**[Primary Antibody]****Bioss**
ANTIBODIES

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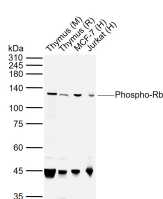
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

Phospho-Rb (Thr821) Rabbit pAb**DATASHEET**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) ICC/IF (1:100)
Clonality: Polyclonal		Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Horse)
GeneID: 5925	SWISS: P06400	Predicted MW.: 102 kDa
Target: Phospho-Rb (Thr821)		Subcellular Location: Nucleus
Immunogen: KLH conjugated Synthesised phosphopeptide derived from human Rb around the phosphorylation site of Thr821: LP(p-T)PT.		
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: The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active, hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. Rb is a tumor suppressor gene which functions as a negative regulator of the cell cycle by interacting with transcription factors including E2F1, PU1, ATF2, UBF, Elf1 and cAbl. This ability of Rb to alter transcription is regulated by phosphorylation catalyzed by the cyclin dependent protein kinases (cdks). Rb is phosphorylated on serine and threonine, but not on tyrosine residues. It forms a complex with SV40 large T antigen, adenovirus E1A, and human papilloma virus 16E. Rb protein may act by regulating transcription and loss of its function leads to uncontrolled cell growth. Aberrations in the Rb gene have been implicated in cancers of breast, colon, prostate, kidney, nasopharynx, and leukemia.		

VALIDATION IMAGES

Sample: Lane 1: Mouse Thymus tissue lysates
Lane 2: Rat Thymus tissue lysates Lane 3: Human MCF-7 cell lysates Lane 4: Human Jurkat cell lysates
Primary: Anti-Phospho-Rb (Thr821) (bs-3452R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 102 kDa
Observed band size: 125 kDa



MCF-7 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 (Phospho-Rb (Thr821)) polyclonal Antibody, Unconjugated (bs-3452R) 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.

SELECTED CITATIONS

- [IF=2.8]** Wen Yu Zhang. et al. AMPK regulates immature boar Sertoli cell proliferation through affecting CDK4/Cyclin D3 pathway and mitochondrial function. THERIOGENOLOGY. 2024 Aug;224:9 WB ;Fig. 38714024

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