bs-3091R **[Primary Antibody]**

Phospho-CDK1 (Thr14) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 983 **SWISS:** P06493

Target: Phospho-CDK1 (Thr14)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human cdc2 around the phosphorylation site of Thr14: EG(p-T)YG.

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 member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

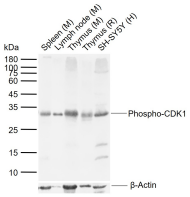
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Rabbit)

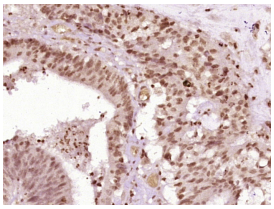
Predicted MW.: 34 kDa

Subcellular Location: Cytoplasm ,Nucleus

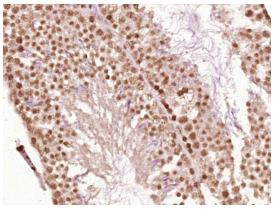
VALIDATION IMAGES



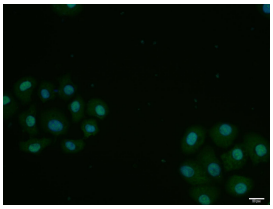
Sample: Lane 1: Mouse Spleen tissue lysates Lane 2: Mouse Lymph node tissue lysates Lane 3: Mouse Thymus tissue lysates Lane 4: Rat Thymus tissue lysates Lane 5: Human SH-SY5Y cell lysates Primary: Anti-Phospho-CDK1 (Thr14) (bs-3091R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kDa Observed band size: 32 kDa



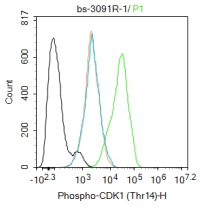
Paraformaldehyde-fixed, paraffin embedded (Human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-CDK1 (Thr14)) Polyclonal Antibody, Unconjugated (bs-3091R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); 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 (Phospho-CDK1 (Thr14)) Polyclonal Antibody, Unconjugated (bs-3091R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking



Blank control（black line）:Hela. Primary Antibody (green line): Rabbit Anti-Phospho-

buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Phospho-CDK1 (Thr14)) polyclonal Antibody, Unconjugated (bs-3091R) 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.

CDK1 (Thr14) antibody (bs-3091R) Dilution:1ug/Test; Secondary Antibody（white blue line）: Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）: Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, 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=3.715]** Bradley A. Nicholas. et al. BCR-ABL is enriched in S- and G2-cell cycle phases. LEUKEMIA RES. 2023 Mar;126:107036 ICC ;Human. 36764024
- **[IF=2.976]** Chen X et al. Reactive oxygen species induced by icaritin promote DNA strand breaks and apoptosis in human cervical cancer cells.(2019)Oncol Rep. Feb;41(2):765-778. WB ;. 30431140