
CDK1 Rabbit pAb

Catalog Number: bs-0542R

Target Protein: CDK1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:100)

Reactivity: Human, Mouse (predicted:Rat, Dog, Horse)

Predicted MW: 34 kDa

Entrez Gene: 983

Swiss Prot: P06493

Source: KLH conjugated synthetic peptide derived from human CDK1: 201-297/297.

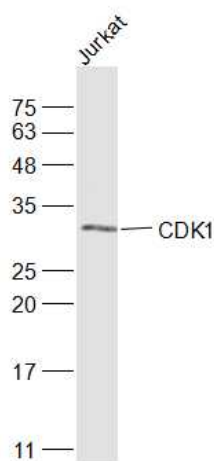
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

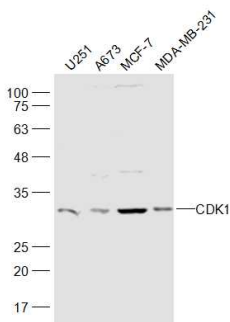
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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]

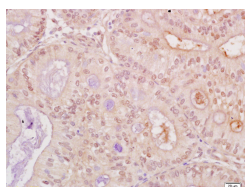
VALIDATION IMAGES



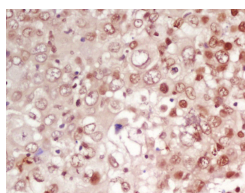
Sample: Jurkat(Human) Cell Lysate at 30 ug Primary: Anti-CDK1 (bs-0542R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 33 kD



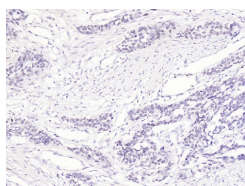
Sample: U251(Human) Cell Lysate at 30 ug A673(Human) Cell Lysate at 30 ug MCF-7(Human) Cell Lysate at 30 ug MDA-MB-231(Human) Cell Lysate at 30 ug Primary: Anti-CDK1 (bs-0542R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 34 kD



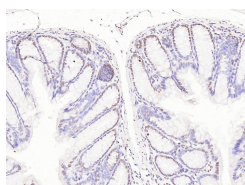
Tissue/cell: human breast carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CDK1 Polyclonal Antibody, Unconjugated(bs-0542R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human laryngocarcinoma; 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-CDK1 Polyclonal Antibody, Unconjugated(bs-0542R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Human esophageal 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 (CDK1) Polyclonal Antibody, Unconjugated (bs-0542R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse colon); 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 (CDK1) Polyclonal Antibody, Unconjugated (bs-0542R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.65] Zhang L et al. Silica Nanoparticles exacerbates reproductive toxicity development in high-fat diet-treated Wistar rats. J Hazard

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

Mater. 2019 Oct 1:121361. WB ; Rat . 31606252

[IF=5.01] Ghatge, N. B., et al. "Sundew plant, a potential source of anti-inflammatory agents, selectively induces G2/M arrest and apoptosis in MCF-7 cells through upregulation of p53 and Bax/Bcl-2 ratio." Cell Death Discovery 2 (2016). WB ; ="Human" . 27551490

[IF=5.391] Xue Y et al. Maternal undernutrition induces fetal hepatic lipid metabolism disorder and affects the development of fetal liver in a sheep model. ASEB J. 2019 Jun 5:fj201900406R. WB ; ewe . 31167079

[IF=3.73] Haolong, Du, et al. "Enterovirus 71 VP1 Activates Calmodulin-Dependent Protein Kinase II and Results in the Rearrangement of Vimentin in Human Astrocyte Cells." PLoS One 8(9): e73900 WB ; ="Human" . 24073199

[IF=3.73] Ghatge, Nikhil Baban, et al. "An Antioxidant Extract of Tropical Lichen, Parmotrema reticulatum, Induces Cell Cycle Arrest and Apoptosis in Breast Carcinoma Cell Line MCF-7." PLOS ONE 8.12 (2013): e82293. WB ; ="Human" . 24358166