

**bs-0542R****[ Primary Antibody ]****CDK1 Rabbit pAb****Bioss**  
**ANTIBODIES**

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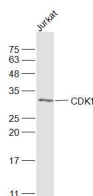
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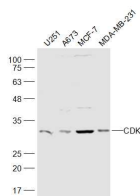
400-901-9800

**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 983**SWISS:** P06493**Target:** CDK1**Immunogen:** KLH conjugated synthetic peptide derived from human CDK1: 201-297/297.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

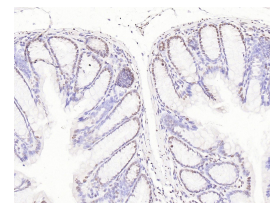
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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)**ICC/IF** (1:100)**Reactivity:** Human, Mouse  
(predicted: Rat, Dog, Horse)**Predicted  
MW.:** 34 kDa**Subcellular  
Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

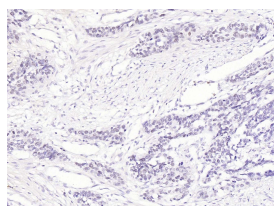
Sample: Jurkat(Human) Cell Lysate at 30 ug  
 Primary: Anti-CDK1 (bs-0542R) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD  
 Observed band size: 33 kD



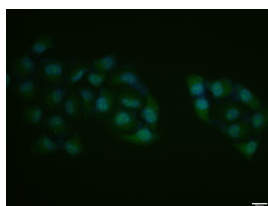
Sample: U251(Human) Cell Lysate at 30 ug  
 A673(Human) Cell Lysate at 30 ug  
 MCF-7(Human) Cell Lysate at 30 ug MDA-MB-231(Human) Cell Lysate at 30 ug  
 Primary: Anti-CDK1 (bs-0542R) at 1/500 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD  
 Observed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



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) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by



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

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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) instructions and DAB staining.

buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (CDK1) polyclonal Antibody, Unconjugated (bs-0542R) 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=7.65]** Zhang L et al. Silica Nanoparticles exacerbates reproductive toxicity development in high-fat diet-treated Wistar rats. J Hazard 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=4.7]** Xuben Niu. et al. Dracorhodin perchlorate sensitizes colorectal cancer to ferroptosis by activating HMOX1 and inhibiting the SLC7A11/GPX4 axis. INT IMMUNOPHARMACOL. 2025 Jun;158:114827 WB ;Mouse,Human. 40359890
- **[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