

bs-0633R**[Primary Antibody]****CDK4 Rabbit pAb****Bioss**
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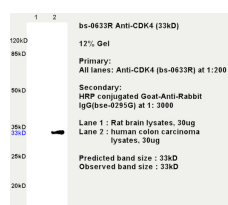
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400-901-9800

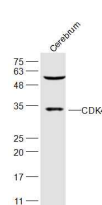
— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 1019**SWISS:** P11802**Target:** CDK4**Immunogen:** KLH conjugated synthetic peptide derived from human CDK4: 241-303/303.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) 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.

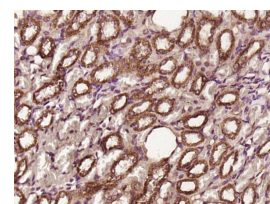
Background: The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of *S. cerevisiae* cdc28 and *S. pombe* cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported. [provided by RefSeq, Jul 2008]

Applications: WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg/Test)**ICC/IF** (1:100)**Reactivity:** Human, Mouse, Rat
(predicted: Pig, Cow)**Predicted MW.:** 34 kDa**Subcellular Location:** Cell membrane ,Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

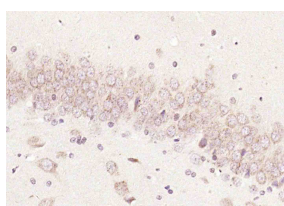
Sample: Brain (Rat) Lysate at 30 ug Colon carcinoma(Human) lysate at 30 ug Primary: Anti-CDK4 (bs-0633R) at 1/200 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/3000 dilution Predicted band size: 33 kD Observed band size: 33 kD



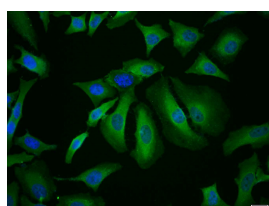
Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-CDK4 (bs-0633R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 34 kD



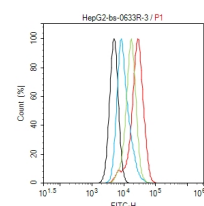
Paraformaldehyde-fixed, paraffin embedded (rat kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CDK4) Polyclonal Antibody, Unconjugated (bs-0633R) 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 (rat



Tissue/cell: HeLa cell; 4% Paraformaldehyde-



Blank control (black line): HepG2(black) (The

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brain); 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 (CDK4) Polyclonal Antibody, Unconjugated (bs-0633R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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 (CDK4) polyclonal Antibody, Unconjugated (bs-0633R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with PBST for 30 min on room temperature) Primary Antibody (Red line): Rabbit Anti-CDK4 antibody (bs-0633R); Dilution: 1µg /10⁶ cells; Isotype Control Antibody (green line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC; Dilution: 1µg /test.

— SELECTED CITATIONS —

- **[IF=11.5]** Flint Alyssa C.. et al. Combined CDK4/6 and ERK1/2 inhibition enhances anti-tumor activity in NF1-associated plexiform neurofibroma. CLIN CANCER RES. 2023 Jul;: IHC ;Mouse,Human. 37406085
- **[IF=8.2]** Xiaoyu Yue. et al. Taraxacum mongolicum polysaccharides promotes promote white adipocyte browning by regulating miR-134-3p via Akt/GSK-3β signalling. INT J BIOL MACROMOL. 2023 Nov;:128296 WB ;Sheep. 38000580
- **[IF=7.077]** Xinrui Li. et al. Skeletal muscle mass, meat quality and antioxidant status in growing lambs supplemented with guanidinoacetic acid. MEAT SCI. 2022 Oct;192:108906 WB ;Sheep. 35850029
- **[IF=7.1]** Tateishi Kensuke. et al. Genetic alterations that deregulate RB and PDGFRA signaling pathways drive tumor progression in IDH2-mutant astrocytoma. ACTA NEUROPATHOL COM. 2023 Dec;11(1):1-13 IHC ;Mouse. 38012788
- **[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