bs-10726R **[Primary Antibody]**

CDK2 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1017 **SWISS:** P24941

Target: CDK2

Immunogen: KLH conjugated synthetic peptide derived from human CDK2: 201-298/298.

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 kinase is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported. [provided by RefSeq, Jul 2008].

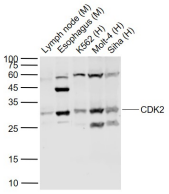
Applications: **WB** (1:500-2000)
Flow-Cyt (3μg/Test)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Cow, Horse)

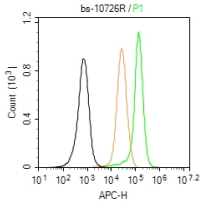
Predicted MW.: 33 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Lane 1: Lymph node (Mouse) Lysate at 40 ug Lane 2: Esophagus (Mouse) Lysate at 40 ug Lane 3: K562 (Human) Cell Lysate at 30 ug Lane 4: Molt-4 (Human) Cell Lysate at 30 ug Lane 5: Siha (Human) Cell Lysate at 30 ug Primary: Anti-CDK2 (bs-10726R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 30 kD Observed band size: 30 kD



Blank control (Black line): U87MG(Black). Primary Antibody (green line): Rabbit Anti-CDK2 antibody (bs-10726R) Dilution: 3μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. 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=7.4]** Liu Jinpeng. et al. miR-92b-3p protects retinal tissues against DNA damage and apoptosis by targeting BTG2 in

experimental myopia. J TRANSL MED. 2024 Dec;22(1):1-15 IF ;Pig. 38807184

- **[IF=6.1]** Jianfang Wang. et al. Knockdown of NFIC Promotes Bovine Myoblast Proliferation through the CENPF/CDK1 Axis. J AGR FOOD CHEM. 2024;72(22):12641−12654 WB ;Bovine. 38780097
- **[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
- **[IF=5.075]** Tianjie Wang. et al. Effect of Fumonisin B1 on Proliferation and Apoptosis of Intestinal Porcine Epithelial Cells. TOXINS. 2022 Jul;14(7):471 WB ;Pig. 35878209
- **[IF=4.5]** Dong-Dong Wang. et al. Identification of diterpenoids from Salvia castanea Diels f. tomentosa Stib and their antitumor activities. BIOORG CHEM. 2024 Aug;:107701 WB ;Human. 39154520