
CDK2 Rabbit pAb

Catalog Number: bs-0757R

Target Protein: CDK2

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

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

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

Predicted MW: 33 kDa

Subcellular Cytoplasm ,Nucleus

Locations:

Entrez Gene: 1017

Swiss Prot: P24941

Source: KLH conjugated synthetic peptide derived from human CDK2: 1-100/298.

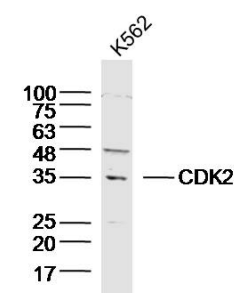
Purification: affinity purified by Protein A

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

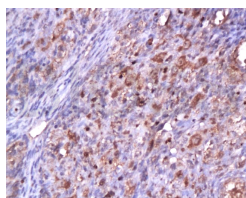
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein 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].

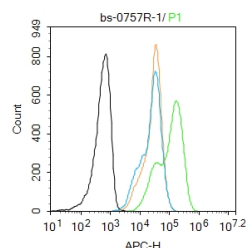
VALIDATION IMAGES



Sample:K562 Cell (Human) Lysate at 40 ug Primary: Anti-CDK2(bs-0757R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33kD Observed band size: 35kD



Tissue/cell: rat ovary tissue; 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-CDK2 Polyclonal Antibody, Unconjugated(bs-0757R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:Molt4. Primary Antibody (green line): Rabbit Anti-CDK2 antibody (bs-0757R) Dilution: 1μg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST 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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=8.74] Chen et al. STAT1 inhibits human hepatocellular carcinoma cell growth through induction of p53 and Fbxw7. (2015) Cancer.Cell.Int. 15:111 WB ; Human . 26617467

[IF=8.2] Yun-shan Wei. et al. Regulation of the colon-targeted release rate of lactoferrin by constructing hydrophobic ethyl cellulose/pectin composite nanofibrous carrier and its effect on anti-colon cancer activity. INT J BIOL MACROMOL. 2024 Mar;261:129466 WB ; Human . 38242414

[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=6.575] Qiyu Gan. et al. Prognostic Value and Immune Infiltration of HPV-Related Genes in the Immune Microenvironment of Cervical Squamous Cell Carcinoma and Endocervical Adenocarcinoma. CANCERS. 2023 Jan;15(5):1419 IHC ; Human . 36900213

[IF=5.652] Haijun Sun. et al. WD Repeat Domain 43 promotes malignant progression of non-small cell lung cancer by regulating CDK2. INT J BIOCHEM CELL B. 2022 Aug;;106293 WB ; Human . 10.1016/j.biocel.2022.106293