

CDK2 (PT0233R) PT® Rabbit mAb

Catalog No: YM8146

Reactivity: Human; Mouse; Rat;

Applications: WB;IHC;IF;IP;ELISA

Gene Name: >>FoxO signaling pathway;>>Cell cycle;>>Oocyte meiosis;>>p53 signaling

pathway;>>PI3K-Akt signaling pathway;>>Cellular senescence;>>Progesterone-mediated oocyte maturation;>>Cushing syndrome;>>Hepatitis C;>>Hepatitis B;>>Measles;>>Human papillomavirus infection;>>Human T-cell leukemia virus 1

infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Viral

carcinogenesis;>>Prostate cancer;>>Small cell lung cancer;>>Gastric cancer

Protein Name: CDK2

Sequence: Cyclin-dependent kinase 2

P24941

P97377

Human Gene Id: 1017

Human Swiss Prot

No:

Mouse Gene Id: 12566

Mouse Swiss Prot

No:

Rat Swiss Prot No: Q63699

Specificity: endogenous

Formulation: PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Source : Monoclonal, rabbit, IgG, Kappa

Dilution: IHC 1:1000-1:4000,WB 1:1000-1:5000,IF 1:200-1:1000,ELISA

1:5000-1:20000,IP 1:50-1:200,

Purification: Protein A

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Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 34kD

Observed Band: 34kD

Cell Pathway: Cell Cycle G1S;Cell Cycle G2M DNA;Oocyte meiosis;p53;Progesterone-

mediated oocyte maturation; Pathways in cancer; Prostate cancer; Small cell lung

cancer;

Background: cyclin dependent kinase 2(CDK2) Homo sapiens This gene encodes a member

of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1

(CDKN1B). Alternative splicing results in multiple transcript variants. [provided by

RefSeq, Mar 2014],

Function: catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme

regulation:Phosphorylation at Thr-14 or Tyr-15 inactivates the enzyme, while phosphorylation at Thr-160 activates it.,function:Involved in the control of the cell cycle. Interacts with cyclins A, B1, B3, D, or E. Activity of CDK2 is maximal during

S phase and G2., similarity: Belongs to the protein kinase

superfamily., similarity: Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily., similarity: Contains 1 protein kinase

domain.,subunit:Found in a complex with CABLES1, CCNA1 and CCNE1. Interacts with CABLES1 (By similarity). Interacts with UHRF2. Part of a complex consisting of UHRF2, CDK2 and CCNE1. Interacts with the Speedy/Ringo proteins SPDYA and SPDYC. Found in a complex with both SPDYA and

CDKN1B/KIP1.,

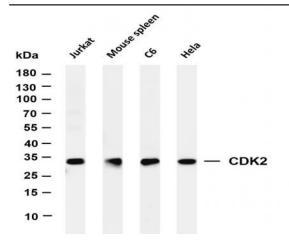
Subcellular Location:

Cytoplasm

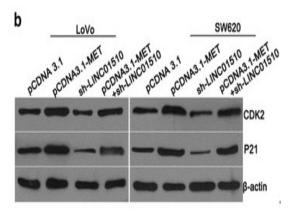
Expression:

Epithelium, Lung, Placenta,

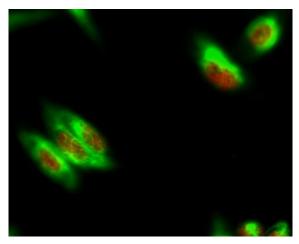
Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CDK2 (PT0233R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Lane 2: Mouse spleen Lane 3: C6 Lane 4: Hela Predicted band size: 34kDa Observed band size: 34kDa

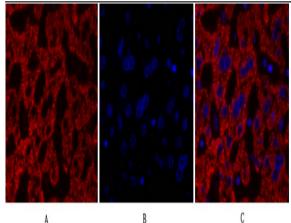


Cen, Chaoqun, et al. "Long noncoding RNA LINC01510 promotes the growth of colorectal cancer cells by modulating MET expression." Cancer cell international 18.1 (2018): 45.

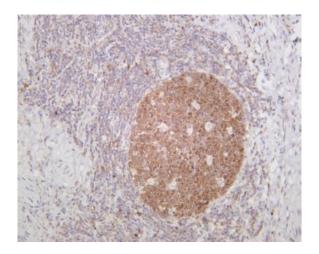


Immunofluorescence analysis of Hela cell. 1,Cdk2 Antibody(red) was diluted at 1:200(4° overnight). NSE Monoclonal Antibody(13E2)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).





Immunofluorescence analysis of human-liver tissue. 1,Cdk2
Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled
Secondary antibody was diluted at 1:300(room temperature,
50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture
B: DAPI. Picture C: merge of A+B



Human tonsil was stained with anti-CDK2 (PT0233R) rabbit antibody