

## p21 Cip1 (Phospho Ser129) Rabbit pAb

Catalog No: YP1849

**Reactivity:** Human; Mouse

**Applications:** IHC;WB

Target: p21

**Fields:** >> Endocrine resistance; >> Platinum drug resistance; >> ErbB signaling

pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Cell cycle;>>p53 signaling pathway;>>PI3K-Akt signaling pathway;>>Cellular senescence;>>JAK-STAT signaling pathway;>>Oxytocin signaling

pathway;>>Parathyroid hormone synthesis, secretion and action;>>Cushing

syndrome;>>Hepatitis C;>>Hepatitis B;>>Human cytomegalovirus

infection;>>Human papillomavirus infection;>>Human T-cell leukemia virus 1 infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Viral carcinogenesis;>>Proteoglycans in cancer;>>MicroRNAs in

cancer;>>Colorectal cancer;>>Renal cell carcinoma;>>Pancreatic cancer;>>Endometrial cancer;>>Glioma;>>Prostate cancer;>>Thyroid cancer;>>Basal cell carcinoma;>>Melanoma;>>Bladder cancer;>>Chronic

myeloid leukemia;>>Small cell lung cancer;>>Non-small cell lung

cancer;>>Breast cancer;>>Hepatocellular carcinoma;

Gene Name: CDKN1A CAP20 CDKN1 CIP1 MDA6 PIC1 SDI1 WAF1

**Protein Name:** Cyclin-dependent kinase inhibitor 1 (CDK-interacting protein 1) (Melanoma

differentiation-associated protein 6) (MDA-6) (p21)

Human Gene Id: 1026

**Human Swiss Prot** 

P38936

No:

Mouse Gene Id: 12575

**Mouse Swiss Prot** 

P39689

No:

**Immunogen:** Synthesized peptide derived from human p21 Cip1 (Phospho Ser129)

**Specificity:** This antibody detects endogenous levels of p21 Cip1 (Phospho Ser129) Rabbit

1/3



pAb at Human, Mouse

**Formulation :** Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Source: Rabbit,polyclonal

**Dilution:** WB 1:500-2000 IHC 1:50-200

**Purification:** The antibody was affinity-purified from rabbit serum by affinity-chromatography

using specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 21kD

**Background:** cyclin dependent kinase inhibitor 1A(CDKN1A) Homo sapiens This gene

encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen, a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that

lac

**Function:** function: May be the important intermediate by which p53 mediates its role as an

inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression.,induction:By

p53, mezerein (antileukemic compound) and interferon

beta.,PTM:Phosphorylation of Thr-145 by Akt or of Ser-146 by PKC impairs binding to PCNA.,similarity:Belongs to the CDI family.,tissue specificity:Expressed

in all adult human tissues, with 5-fold lower levels observed in the brain.,

Subcellular Location:

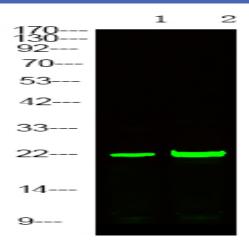
Cytoplasm . Nucleus .

**Expression:** Expressed in all adult tissues, with 5-fold lower levels observed in the brain.

2/3



## **Products Images**



Western Blot analysis of 1 HeLa cell, 2 LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000