

## p21 (PT0237R) PT™ Rabbit mAb

CatalogNo: YM8148 **Recombinant** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human,Rat,Bovine

#### Applications

- WB,IHC,IF,IP,ELISA

#### MW

- 18kD (Calculated)  
18kD (Observed)

#### Isotype

- IgG,Kappa

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

### Recommended Dilution Ratios

**IHC 1:100-1:200****WB 1:1000-1:5000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200,**

### Basic Information

**Clonality** Monoclonal**Clone Number** PT0237R

### Immunogen Information

**Specificity** Endogenous

## Target Information

**Gene name** CDKN1A CAP20 CDKN1 CIP1 MDA6 PIC1 SDI1 WAF1

**Protein Name** Cyclin-dependent kinase inhibitor 1

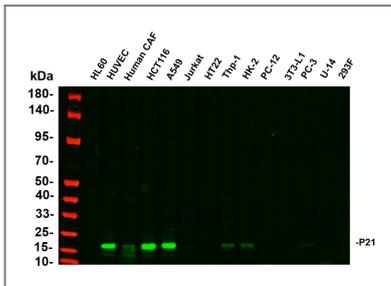
Organism	Gene ID	UniProt ID
Human	<a href="#">1026;</a>	<a href="#">P38936;</a>
Mouse	<a href="#">12575;</a>	<a href="#">P39689;</a>

**Cellular Localization** Nucleus

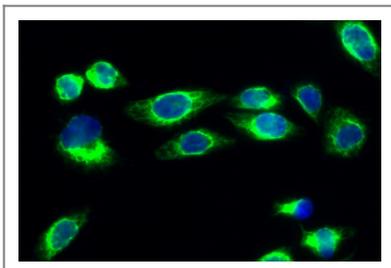
**Tissue specificity** Expressed in all adult tissues, with 5-fold lower levels observed in the brain.

**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.,

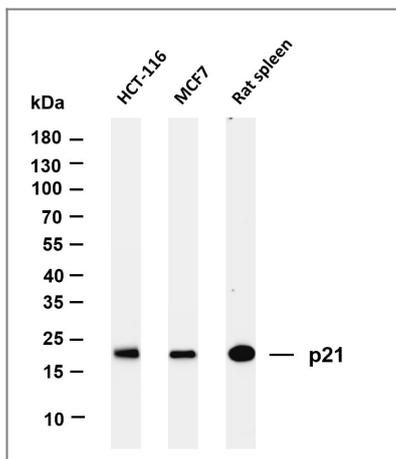
## Validation Data



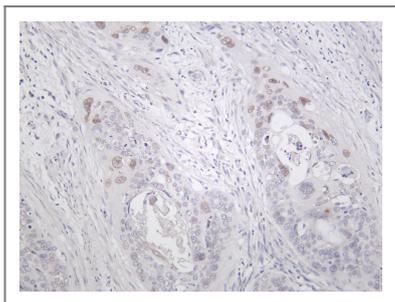
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Lane14: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 21kDa Observed band size: 21kDa



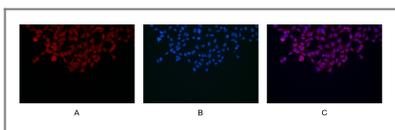
Immunofluorescence analysis of HeLa cell. 1,p21 Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-p21 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HCT-116 Lane 2: MCF7 Lane 3: Rat spleen Predicted band size: 18kDa Observed band size: 18kDa



Human cervical carcinoma was stained with Anti-p21 rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: p21 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

## Contact information

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**p21 (PT0237R) PT™**  
**Rabbit mAb**

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