

p21 (PT0237R) PT™ Rabbit mAb

CatalogNo: YM8148 Recombinant R

Key Features

Host Species

Rabbit

MW
• 18kD (Calculated)
18kD (Observed)

Reactivity

Human,Rat

Isotype

IgG,Kappa

Applications

WB,IHC,IF,IP,ELISA

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,

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

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	<u>1026;</u>	<u>P38936;</u>
Mouse	<u>12575</u> ;	<u>P39689;</u>

Cellular Localization

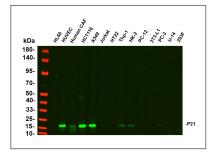
Nucleus

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

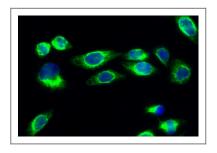
Function

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.,

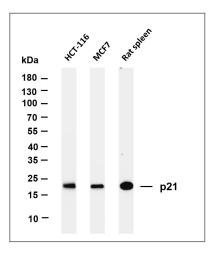
Validation Data



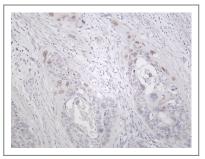
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - 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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Please scan the QR code to access additional product information: **p21 (PT0237R) PT**™

Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents