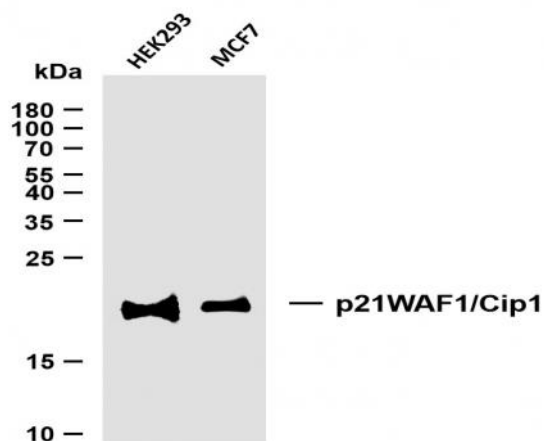


**p21WAF1/Cip1 (PT0015R) rabbit mAb**

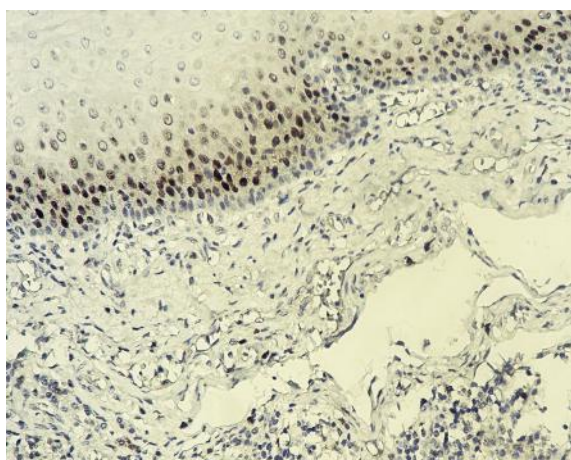
|                              |  |
|------------------------------|--|
| <b>Catalog No :</b>          | YM8006   |
| <b>Reactivity :</b>          | Human;Mouse;   |
| <b>Applications :</b>        | WB;IHC;ELISA   |
| <b>Target :</b>              | p21  |
| <b>Fields :</b>              | >>Endocrine 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; |
| <b>Gene Name :</b>           | CDKN1A CAP20 CDKN1 CIP1 MDA6 PIC1 SDI1 WAF1  |
| <b>Protein Name :</b>        | Cyclin-dependent kinase inhibitor 1 (CDK-interacting protein 1) (Melanoma differentiation-associated protein 6) (MDA-6) (p21)  |
| <b>Sequence :</b>            | P38936   |
| <b>Human Gene Id :</b>       | 1026   |
| <b>Human Swiss Prot No :</b> | P38936   |
| <b>Mouse Gene Id :</b>       | 12575  |
| <b>Mouse Swiss Prot No :</b> | P39689   |
| <b>Immunogen :</b>           | Synthesized peptide derived from human protein. AA range:1-100   |

|                               |   |
|-------------------------------|---|
| <b>Specificity :</b>          | <u>endogenous</u>   |
| <b>Formulation :</b>          | <u>PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA</u>   |
| <b>Source :</b>               | <u>Monoclonal Rabbit IgG1, Kappa</u>  |
| <b>Dilution :</b>             | <u>IHC 1:100-500 WB 1:500-2000 ELISA: 1:20000</u>   |
| <b>Purification :</b>         | <u>Protein A</u>  |
| <b>Storage Stability :</b>    | <u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>   |
| <b>Molecularweight :</b>      | <u>21kD</u>   |
| <b>Observed Band :</b>        | <u>21kD</u>   |
| <b>Background :</b>           | <p>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</p> |
| <b>Function :</b>             | <p>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.,</p>  |
| <b>Subcellular Location :</b> | <u>Cytoplasm . Nucleus .</u>  |
| <b>Expression :</b>           | <u>Expressed in all adult tissues, with 5-fold lower levels observed in the brain.</u>  |

## Products Images



Various whole cell lysates were separated by 15% SDS-PAGE, and the membrane was blotted with anti-p21WAF1/Cip1 (PT0015R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1:HEK293 Lane 2:MCF7 Predicted band size: 21kDa Observed band size: 21kDa



Human tonsil tissue was stained with Anti-p21WAF1/Cip1 (PT0015R) rabbit Antibody