

**Product Name:** p21 Rabbit Monoclonal Antibody**Catalog #:** AMRe21315

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Recombinant rabbit monoclonal antibody                                      |
| <b>Host</b>          | Rabbit  |
| <b>Application</b>   | WB,IHC,ICC/IF,ELISA,IP  |
| <b>Reactivity</b>    | Mouse,Rat   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | IgG,Kappa   |
| <b>Clonality</b>     | Monoclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 0.3mg/ml. The concentration of this product may be batch-dependent.         |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%protective protein               |
| <b>Purification</b>  | Protein A   |

**Application**

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB 1:2000-1:10000,IHC 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200 |
| <b>Molecular Weight</b> | Calculated MW:18kD;Observed MW:18kD   |

**Antigen Information**

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | CDKN1A  |
| <b>Alternative Names</b> | Cyclin-dependent kinase inhibitor 1 ;CDK-interacting protein 1;Melanoma differentiation-associated protein 6;MDA-6;p21; |
| <b>Gene ID</b>           | 12575.0   |
| <b>SwissProt ID</b>      | P39689  |
| <b>Immunogen</b>         | Recombinant protein of mouse p21  |

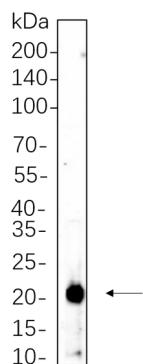
**Background**

Cell localization:Nucleus.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 lack

## Research Area

### Image Data



Rat womb cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with p21 Rabbit Monoclonal Antibody 1:1000. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.