

Recombinant p21 Monoclonal Antibody

catalog number: AN300840L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

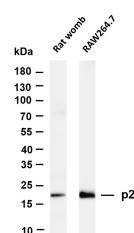
| | |
|--------------|-----------------------------------------------------------------|
| Reactivity | Mouse;Rat |
| Immunogen | Recombinant Mouse p21 protein |
| Host | Rabbit |
| Isotype | IgG,k |
| Clone | B783 |
| Purification | Protein A |
| Buffer | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |

Applications

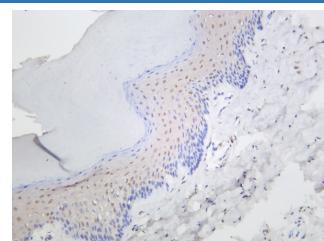
Recommended Dilution

| | |
|-------|----------------|
| IHC | 1:500-1:2000 |
| WB | 1:2000-1:10000 |
| IF | 1:200-1:1000 |
| ELISA | 1:5000-1:20000 |
| IP | 1:50-1:200 |

Data



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: Rat womb
Lane 2: RAW264.7 Predicted band size: 18kDa Observed band size: 18kDa



Rat skin was stained with anti-p21 rabbit antibody

Preparation & Storage

| | |
|----------|-----------------------------------------------------------------|
| Storage | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| Shipping | Ice bag |

Background

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.

For Research Use Only

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