



## Anti-Cyclin-dependent kinase inhibitor 1A (p21), Chicken-Polyclonal Antibody

**Catalog No.** PY-10097  
**Antigen species:** Human  
**Host species:** Chicken

**Quantity:** 100µg  
**Reactivity:** Human  
**Form:** Antigen affinity-purified antibody

**Applications:** Western blot

### Target description

This protein is a potent cyclin-dependent kinase inhibitor. It binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of p21 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 (PCNA), 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 CDK2, and may be instrumental in the execution of apoptosis following caspase activation.

### Antigen

This polyclonal antibody was raised by immunizing chicken with human p21 fusion protein (20-149 amino acids).

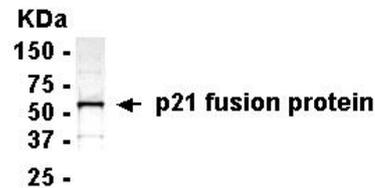
### Application

Western blotting, tissue or cell immunostaining.

Recommended starting dilution for Western blot analysis is 1: 500, for tissue or cell staining is 1: 200.

### Related Products

1. Anti-STAT1 beta, Chicken pAb (PY-10184)
2. Anti-STAT6, Chicken pAb (PY-10185)
3. Anti-Jun kinase (JNK2), Chicken pAb (PY-10198)
4. Anti-serine/ threonine protein kinase (AKT), Chicken pAb (PY-10176)
5. Anti-serine/threonine protein kinase1 (AKT1), Chicken pAb (PY-10178)



### Western blot Protocol

1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 2,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1: 1,000 for ECL (with 1% milk PBS-T) at R.T. for 1 h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.

### Storage

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

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