

## Product datasheet for **AP08017PU-S**

### **p21 (CDKN1A) pThr145 Rabbit Polyclonal Antibody**

#### **Product data:**

|                              |   |
|------------------------------|---|
| <b>Product Type:</b>         | Primary Antibodies  |
| <b>Applications:</b>         | IHC   |
| <b>Recommended Dilution:</b> | Immunohistochemistry (1/50-1/100).  |
| <b>Reactivity:</b>           | Human   |
| <b>Host:</b>                 | Rabbit  |
| <b>Clonality:</b>            | Polyclonal  |
| <b>Immunogen:</b>            | The antiserum was produced against synthesized phosphopeptide derived from human p21Cip1 around the phosphorylation site of threonine 145 (R-Q-TP-S-M).   |
| <b>Specificity:</b>          | This antibody p21Cip1 (pThr145) detects endogenous levels of p21Cip1 only when phosphorylated at Threonine 145.   |
| <b>Formulation:</b>          | PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction.   |
| <b>Concentration:</b>        | lot specific  |
| <b>Purification:</b>         | Immunoaffinity Chromatography: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. |
| <b>Conjugation:</b>          | Unconjugated  |
| <b>Storage:</b>              | Store the antibody (in aliquots) at -20°C.<br>Avoid repeated freezing and thawing.  |
| <b>Stability:</b>            | Shelf life: One year from despatch.   |
| <b>Gene Name:</b>            | cyclin-dependent kinase inhibitor 1A  |
| <b>Database Link:</b>        | <a href="#">Entrez Gene 1026 Human P38936</a>   |



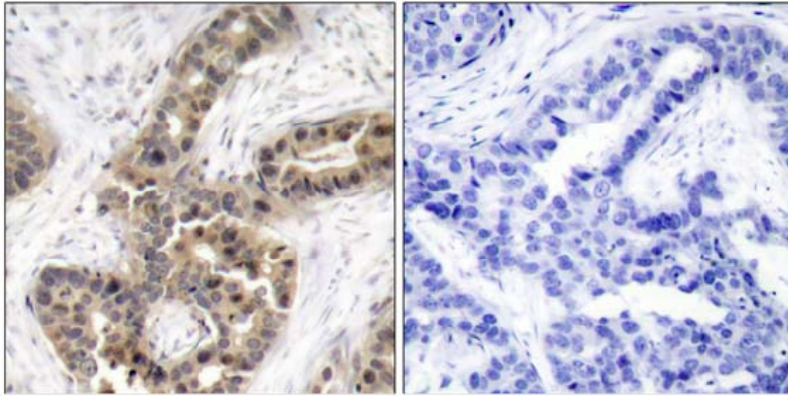
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**Background:**

Cell cycle progression is regulated by cyclins and their cognate Cdks. p21 (WAF1/CIP1) inhibits the activity of each member of the cyclin/Cdk family, and overexpression of this protein inhibits the proliferation of mammalian cells. The expression of p21 is inducible by a wide range of stress stimuli. p21 is tightly regulated at the transcriptional level by p53, and probably serves as the effector of p53 cell cycle control.

**Synonyms:**

CAP20, CDKN1, CIP1, MDA6, MDA-6, PIC1, SDI1, WAF1

**Product images:**

P-Peptide

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Figure 1. Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue using p21Cip1 (pThr145) antibody AP08017PU.