

## Product datasheet for **AP02421PU-S**

### CDK2 pThr160 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Suitable for use in Western blot (1:500~1:1000), ELISA (1:4000) and Immunohistochemistry (1:50~1:100).
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human CDK2 around the phosphorylation site of threonine 160 (T-Y-TP-H-E).
Specificity:	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. CDK2 (phospho-Thr160) antibody detects endogenous levels of CDK2 only when phosphorylated at threonine 160.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	cyclin-dependent kinase 2
Database Link:	<a href="#">Entrez Gene 1017 Human P24941</a>



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**Background:**

Cdk2 is a member of the Ser/Thr protein kinase family. It is highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and is essential for cell cycle G1/S phase transition. This protein associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported.

**Synonyms:**

p33 protein kinase

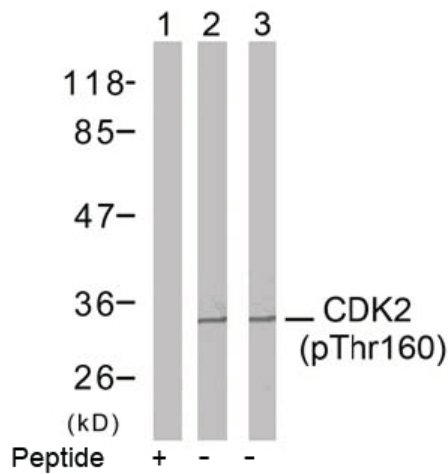
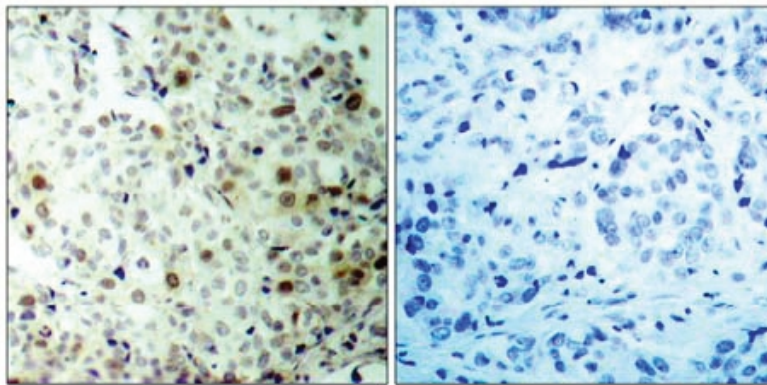
**Product images:**


Figure 2. Western blot analysis of extracts from A2780 cells (Lane 1 and 2) and MDA-MB-435 cells (Lane 3), using CDK2 (phospho-Thr160) antibody.



P-Peptide                      -    +

Figure 1. Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue, using CDK2 (phospho-Thr160) antibody.