

## Product datasheet for **AP01550PU-N**

### CDK2 pThr160 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	p-CDK2 (pThr160) antibody detects endogenous levels of p-CDK2 protein.
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 34 kDa
Gene Name:	cyclin-dependent kinase 2
Database Link:	<a href="#">Entrez Gene 1017 Human P24941</a>



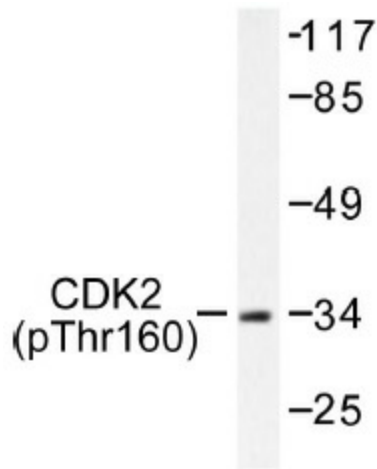
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**Background:**

Cell cycle progression is dependent on the sequential activation of cyclin-dependent kinases (Cdk2). For full activity, the cell cycle control protein Cdk2 requires phosphorylation of a conserved residue, Threonine 160, carried out by Cdk-activating kinase 1. The kinase associated phosphatase (KAP) is a human dual specificity protein phosphatase that dephosphorylates Cdk2 on Threonine 160 in a cyclin dependent manner. KAP binds to Cdk2 and dephosphorylates Threonine 160 when the associated cyclin subunit is degraded or dissociates. Fluorescence measurements show that Threonine 160 phosphorylation increases the affinity of Cdk2 for both histone substrates and ATP and decreases its affinity for ADP.

**Synonyms:**

p33 protein kinase

**Product images:**

Western blot (WB) analysis of p-CDK2 (pThr160) antibody Cat.-No.: AP01550PU-N in extracts from A2780 cells.