

**CDK10 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7516A****Specification**

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**CDK10 Antibody (N-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">Q15131</a>
Other Accession	<a href="#">Q3UMM4</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-32

**CDK10 Antibody (N-term) - Additional Information****Gene ID** 8558**Other Names**

Cyclin-dependent kinase 10, Cell division protein kinase 10, Serine/threonine-protein kinase PISSLRE, CDK10

**Target/Specificity**

This CDK10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-32 amino acids from the N-terminal region of human CDK10.

**Dilution**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CDK10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CDK10 Antibody (N-term) - Protein Information****Name** CDK10

**Function** Cyclin-dependent kinase that phosphorylates the transcription factor ETS2 (in vitro) and positively controls its proteasomal degradation (in cells) (PubMed:[24218572](#)). Involved in the regulation of actin cytoskeleton organization through the phosphorylation of actin dynamics regulators such as PKN2. Is a negative regulator of ciliogenesis through phosphorylation of PKN2 and promotion of RhoA signaling (PubMed:[27104747](#)).

**Cellular Location**

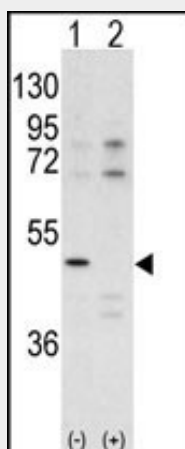
Cytoplasm, cytoskeleton, cilium basal body

**CDK10 Antibody (N-term) - Protocols**

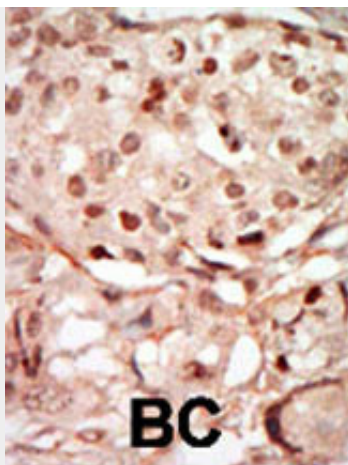
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CDK10 Antibody (N-term) - Images**



Western blot analysis of CDK10 antibody (N-term) (Cat. #AP7516a) pre-incubated with (Lane1) and without (Lane 2) blocking peptide (Cat. #BP7516a) in A375 cell line lysate. CDK10 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **CDK10 Antibody (N-term) - Background**

CDK10 belongs to the CDK subfamily of the Ser/Thr protein kinase family. The CDK subfamily members are highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2, and are known to be essential for cell cycle progression. This kinase has been shown to play a role in cellular proliferation. Its function is limited to cell cycle G2-M phase.

#### **CDK10 Antibody (N-term) - References**

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Brambilla, R., et al., Oncogene 9(10):3037-3041 (1994).  
Grana, X., et al., Oncogene 9(7):2097-2103 (1994).  
Morgan, D. O. Annu. Rev. Cell Dev. Biol. 13, 261 (1997)  
Sherr, C. Science 274:1672 (1996)  
Kamb A. TIG 11:136 (1995)  
Zhang, H. et al, Cell 82, 915 (1995)  
Parge, HE. et al., Science 262, 387 (1993)  
Hershko, A. et al., Ann. Rev. Biochem. 61, 761 (1992)  
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Skowyra, D. et al., Cell 91, 209 (1997)  
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#### **CDK10 Antibody (N-term) - Citations**

- [Decreased CDK10 expression correlates with lymph node metastasis and predicts poor outcome in breast cancer patients - a short report.](#)
- [Elevated C1orf63 expression is correlated with CDK10 and predicts better outcome for advanced breast cancers: a retrospective study.](#)
- [Identification of nuclear structural protein alterations associated with seminomas.](#)
- [Identification of CDK10 as an important determinant of resistance to endocrine therapy for breast cancer.](#)