

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

CDK10 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O15131
Other Accession	O3UMM4
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 PISLRE, 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.

DilutionWB~~1:1000
IHC-P~~1:50~100**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

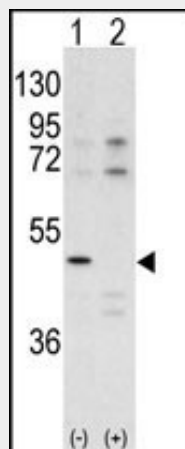
Cytoplasm, cytoskeleton, cilium basal body

CDK10 Antibody (N-term) - Protocols

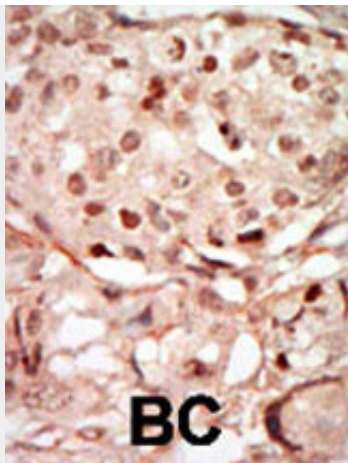
Provided below are standard protocols that you may find useful for product applications.

- [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

Crawford, J., et al., *Genomics* 56(1):90-97 (1999).
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)
Peters, JM. *Curr. Biol.* 10, 759 (1998)
Skowyra, D. et al., *Cell* 91, 209 (1997)
Ganoth D. et al., *Nature Cell Biol.* 3, 321-324 (2001)

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.](#)