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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	Q15131
Other Accession	Q3UMM4
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
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

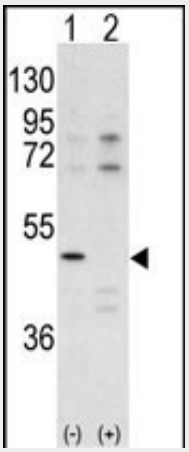
Target/Specificity
This CDK10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-32 amino acids from the N-terminal region of human CDK10.

Dilution
WB~~1:1000
IHC-P~~1:50~100

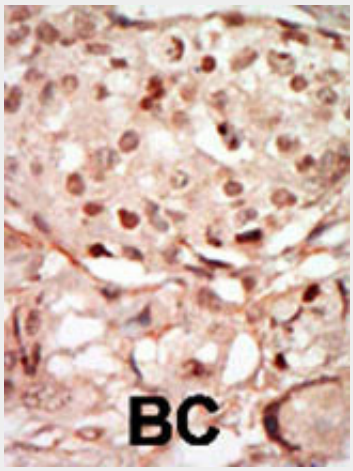
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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



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.

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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 Cytomety
- Cell Culture

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.

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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