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# Anti-CDK10 Antibody

Catalog # AP51068

## Product Information

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|---|---|
| **Application** | WB, IHC, IF/IC |
| **Primary Accession** | Q15131 |
| **Reactivity** | Human, Mouse, Rat, Zebrafish, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 41038 |

## Additional Information

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| **Gene ID** | 8558 |
| **Other Names** | Cyclin-dependent kinase 10; Cell division protein kinase 10; Serine/threonine-protein kinase PISSLRE |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CDK10. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

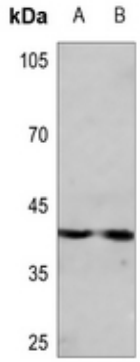
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|---|---|
| **Name** | CDK10 |
| **Function** | Cyclin-dependent kinase that phosphorylates the transcription factor ETS2 (in vitro) and positively controls its proteasomal degradation (in cells) (PubMed:24218572). Involved in the regulation of actin 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 |

## References

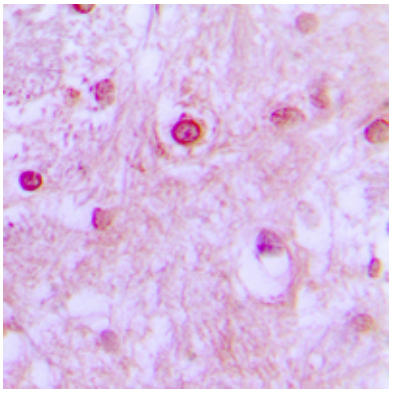
Grana X.,et al.Oncogene 9:2097-2103(1994).
Grana X.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.

Brambilla R.,et al.Oncogene 9:3037-3041(1994).
Crawford J.,et al.Genomics 56:90-97(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

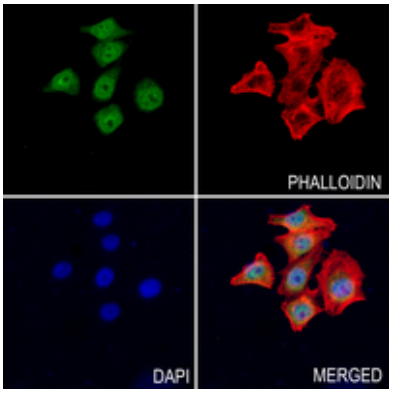
## Images




Western blot analysis of CDK10 expression in rat testis (A), rat kidney (B) whole cell lysates. (Predicted band size: 41 kD; Observed band size: 41 kD)



Immunohistochemical analysis of CDK10 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.




Immunofluorescent analysis of CDK10 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.