

For Research Use Only

# CDK10 Polyclonal antibody

Catalog Number: 30061-1-AP

1 Publications



## Basic Information

### Catalog Number:

30061-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG30365

### GenBank Accession Number:

BC017342

### GeneID (NCBI):

8558

### UNIPROT ID:

Q15131

### Full Name:

cyclin-dependent kinase 10

### Calculated MW:

283 aa, 32 kDa

### Observed MW:

38 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:3000

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

mouse

### Positive Controls:

WB : A431 cells, K-562 cells, THP-1 cells, U2OS cells, C2C12 cells

IF/ICC : hTERT-RPE1 cells,

## Background Information

Cyclin-dependent kinase 10 (CDK10) is a Cdc2-related kinase that was discovered based on its homology to the Cdc2 PSTA1RE amino acid domain (PMID: 8208557). CDK10 plays a pivotal role in the regulation of fundamental cellular processes, including cell proliferation, transcription regulation, and cell cycle regulation. It partners with cyclin M to phosphorylate substrates such as ETS2 and PKN2 in order to modulate cellular growth. Initial reports have indicated that CDK10 may act as a tumor suppressor in breast cancer (PMID: 26392360). Additional studies have demonstrated tumor suppressive and oncogenic roles for CDK10 in malignancies such as hepatobiliary cancers, gastric cancer, glioma, nasopharyngeal carcinoma, and colorectal cancer (PMID: 22326270, PMID: 29512714, PMID: 23740091, PMID: 29845196)

## Notable Publications

Author	Pubmed ID	Journal	Application
Ting Song	40155750	EMBO Rep	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

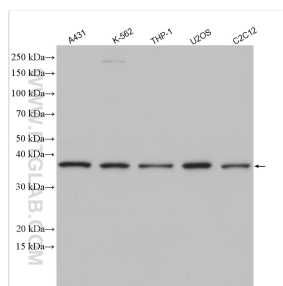
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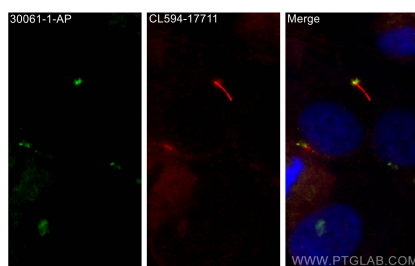
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30061-1-AP (CDK10 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using CDK10 antibody (30061-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CoraLite® 594 ARL13B antibody (CL594-17711, red).