

For Research Use Only

# CDK5 Polyclonal antibody

Catalog Number: 10430-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

10430-1-AP

### Size:

150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0686

### GenBank Accession Number:

BC005115

### GeneID (NCBI):

1020

### Full Name:

cyclin-dependent kinase 5

### Calculated MW:

31 kDa, 33 kDa

### Observed MW:

33 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF 1:20-1:200

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: HepG2 cells, mouse pancreas tissue, NIH/3T3 cells, mouse brain tissue

**IHC**: mouse kidney tissue, human renal cell carcinoma tissue

**IF**: NIH/3T3 cells,

## Background Information

Cyclin-dependent kinase 5 (CDK5), belongs to the cyclin-dependent kinase family, is a proline-directed serine/threonine-protein kinase that essential for neuronal cell cycle arrest and differentiation and may be involved in apoptotic cell death in neuronal diseases by triggering abortive cell cycle re-entry. CDK5 predominantly expressed in neurons where it phosphorylates both high molecular weight neurofilaments and microtubule-associated protein tau.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yue Li	29031852	Neuropharmacology	WB
Liu Wei W	22614921	J Cell Biochem	WB
Xijun Chen	31364016	Mol Biol 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

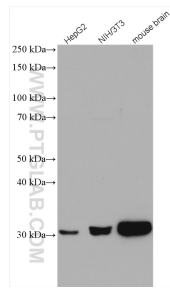
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

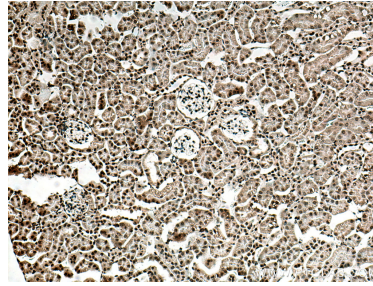
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

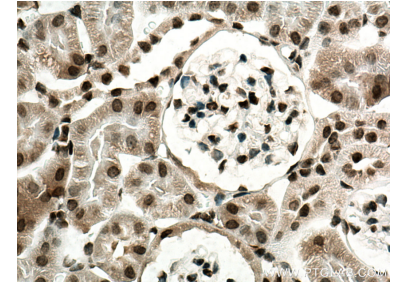
## Selected Validation Data



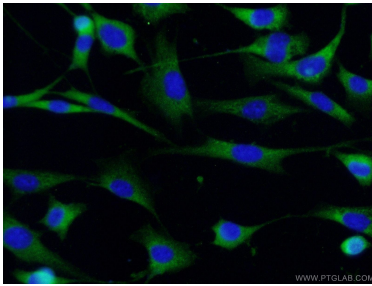
Various lysates were subjected to SDS PAGE followed by western blot with 10430-1-AP (CDK5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10430-1-AP (CDK5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10430-1-AP (CDK5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using 10430-1-AP (CDK5 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).