

For Research Use Only

# CDKL5 Polyclonal antibody

Catalog Number: 12973-1-AP **2 Publications**



## Basic Information

**Catalog Number:**

12973-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3531

**GenBank Accession Number:**

BC036091

**GeneID (NCBI):**

6792

**UNIPROT ID:**

O76039

**Full Name:**

cyclin-dependent kinase-like 5

**Calculated MW:**

1030 aa, 114 kDa

**Observed MW:**

100-110 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse

**Cited Species:**

human, mouse

**Positive Controls:**

WB : HEK-293 cells, HepG2 cells, PC-12 cells, SH-SY5Y cells, HeLa cell

IP : mouse brain tissue,

## Background Information

Cyclin dependent kinase like 5 (CDKL5) may regulate ciliogenesis and neuronal morphogenesis. It has been reported that CDKL5 is associated with epileptic seizures, severe intellectual disability, and autistic features. The CDKL5 protein is a kinase that regulates key phosphorylation events vital to the development of the complex neuronal network of the brain.

## Notable Publications

Author	Pubmed ID	Journal	Application
Alessia Di Nardo	34624412	Neurosci Res	WB,IF
Hanzhe Kuang	37980560	Cell 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:

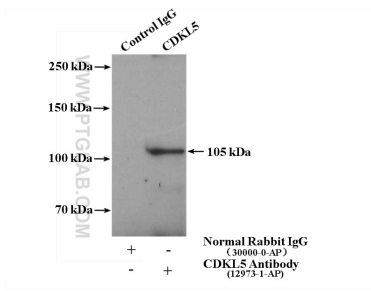
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

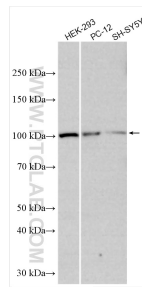
W: [ptgcn.com](http://ptgcn.com)

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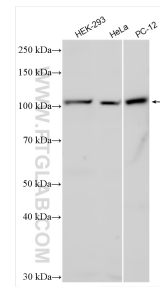
## Selected Validation Data



IP result of anti-CDKL5 (IP:12973-1-AP, 4ug;  
Detection:12973-1-AP 1:300) with mouse brain  
tissue lysate 3200 ug.



Various lysates were subjected to SDS PAGE  
followed by western blot with 12973-1-AP (CDKL5  
antibody) at dilution of 1:1000 incubated at room  
temperature for 1.5 hours.



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