

# CDK5R1 Rabbit pAb

Catalog No.: A14497

## Basic Information

### Observed MW

25kDa

### Calculated MW

34kDa

### Category

Primary antibody

### Applications

ELISA, WB, IF/ICC

### Cross-Reactivity

Human, Mouse, Rat

## Background

The protein encoded by this gene (p35) is a neuron-specific activator of cyclin-dependent kinase 5 (CDK5); the activation of CDK5 is required for proper development of the central nervous system. The p35 form of this protein is proteolytically cleaved by calpain, generating a p25 form. The cleavage of p35 into p25 results in relocalization of the protein from the cell periphery to nuclear and perinuclear regions. P25 deregulates CDK5 activity by prolonging its activation and changing its cellular location. The p25 form accumulates in the brain neurons of patients with Alzheimer's disease. This accumulation correlates with an increase in CDK5 kinase activity, and may lead to aberrantly phosphorylated forms of the microtubule-associated protein tau, which contributes to Alzheimer's disease.

## Recommended Dilutions

|               |                |
|---------------|----------------|
| <b>WB</b>     | 1:500 - 1:1000 |
| <b>IF/ICC</b> | 1:50 - 1:200   |

## Immunogen Information

### Gene ID

8851

### Swiss Prot

Q15078

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 99-307 of human CDK5R1 (NP\_003876.1).

### Synonyms

p23; p25; p35; CDK5R; NCK5A; CDK5P35; p35nck5a; CDK5R1

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

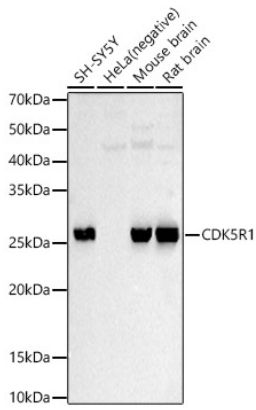
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

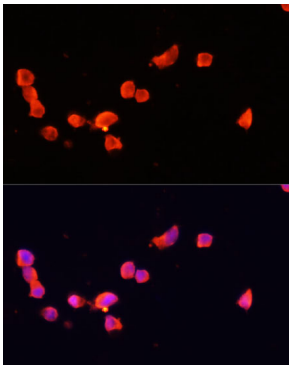
Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of various lysates, using CDK5R1 antibody (A14497) at 1:700 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.



Immunofluorescence analysis of SH-SY5Y cells using CDK5R1 antibody (A14497) at dilution of 1:100. Blue: DAPI for nuclear staining.