

For Research Use Only

# CDK5R1 Monoclonal antibody

Catalog Number: 67503-1-Ig **4 Publications**



## Basic Information

<b>Catalog Number:</b> 67503-1-Ig	<b>GenBank Accession Number:</b> BC020580	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 ug/ml by Nanodrop and 417 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8851	<b>CloneNo.:</b> 1A3A5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q15078	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> cyclin-dependent kinase 5, regulatory subunit 1 (p35)	
<b>Immunogen Catalog Number:</b> AG13152	<b>Calculated MW:</b> 34 kDa	
	<b>Observed MW:</b> 34 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

Human, mouse, rat, pig, rabbit

### 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: pig cerebellum tissue, pig brain tissue, rat brain tissue, mouse brain tissue, mouse cerebellum tissue

IHC: mouse brain tissue, rat brain tissue

## Background Information

Cyclin dependent kinase-5 (Cdk5), is an atypical but essential member of the Cdk family of proline-directed serine/threonine kinases. CDK5R1 encodes p35, a specific activator of the serine/threonine kinase CDK5, which plays a central role in neuronal migration and differentiation during central nervous system development. The p35 form of this protein is proteolytically cleaved by calpain, generating a p25 form.

## Notable Publications

Author	Pubmed ID	Journal	Application
Li Zeng	35024240	Mol Ther Nucleic Acids	IHC
Dake Xiao	39808222	Sci China Life Sci	WB
Ran Zhuo	38636893	Cancer Lett	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

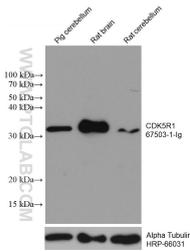
For technical support and original validation data for this product please contact:

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

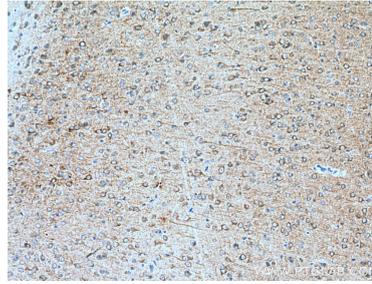
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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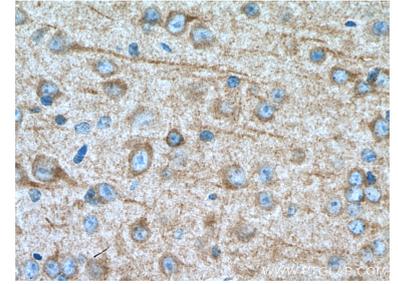
## Selected Validation Data



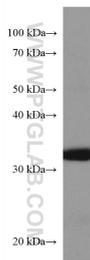
Various lysates were subjected to SDS PAGE followed by western blot with 67503-1-Ig (CDK5R1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67503-1-Ig (CDK5R1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67503-1-Ig (CDK5R1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with 67503-1-Ig (CDK5R1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.