

For Research Use Only

# CDK5R1 Monoclonal antibody

Catalog Number: 67503-1-Ig

3 Publications



## Basic Information

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

## Applications

Tested Applications:	WB, IHC, ELISA	Positive Controls:	
Cited Applications:	WB, IF, IHC, CoIP	WB:	pig cerebellum tissue, pig brain tissue, rat brain tissue, mouse brain tissue, mouse cerebellum tissue
Species Specificity:	Human, mouse, rat, pig, rabbit	IHC :	mouse brain tissue, rat brain tissue
Cited Species:	human, mouse		
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>			

## 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
Ran Zhuo	38636893	Cancer Lett	WB
Xiao-Ling Liang	38024857	J Pharm Anal	WB,IF,CoIP

## 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

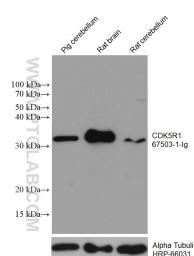
\*\*\* 20ul sizes contain 0.1% BSA

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)

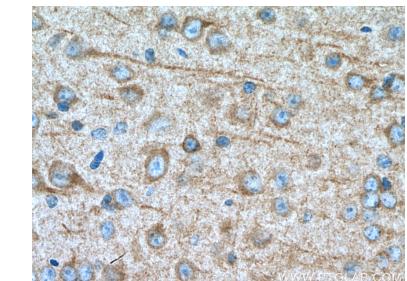
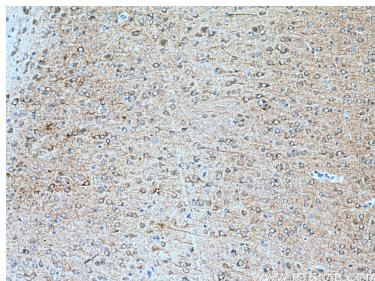
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data

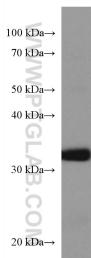


Various lysates were subjected to SDS PAGE followed by western blot with 67503-1-Ig (CDK5R1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



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.