

For Research Use Only

CDK5R1 Monoclonal antibody

Catalog Number: 67503-1-Ig **4 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;	GeneID (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, IHC, IF, ColP	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	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

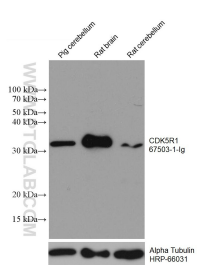
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

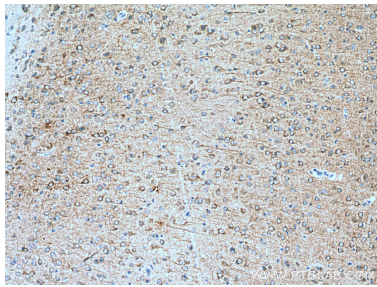
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

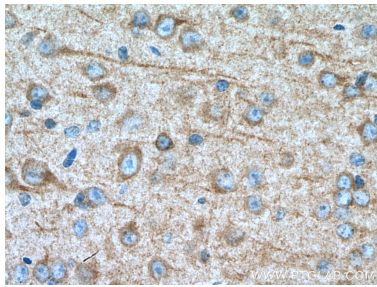
Selected Validation Data



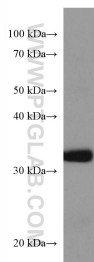
Various lysates were subjected to SDS PAGE followed by western blot with 67503-1-Ig (CDK5R1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



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.