

For Research Use Only

CDK5R1 Monoclonal antibody

Catalog Number: 67503-1-Ig **3 Publications**



Basic Information

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|---|--|---|
| 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

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|--|--|
| Tested Applications: WB, IHC, ELISA | Positive Controls: |
| Cited Applications: WB, IF, IHC, 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 |
| Ran Zhuo | 38636893 | Cancer Lett | WB |
| Xiao-Ling Liang | 38024857 | J Pharm Anal | WB,IF,ColP |

Storage

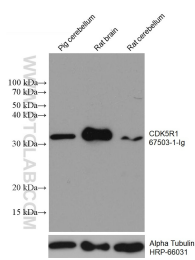
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

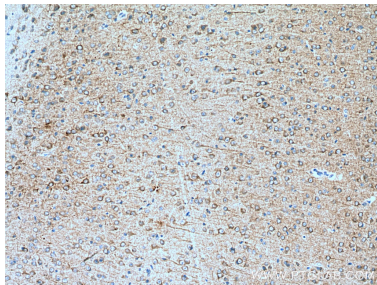
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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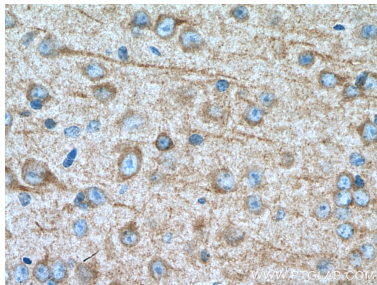
Selected Validation Data



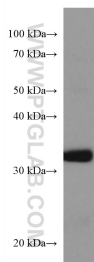
Various lysates were subjected to SDS PAGE followed by western blot with 67503-1-Ig (CDK5R1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



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.