

For Research Use Only

CDK5 Polyclonal antibody

Catalog Number: 10430-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

10430-1-AP

Size:

150ul, Concentration: 1800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0686

GenBank Accession Number:

BC005115

GeneID (NCBI):

1020

UNIPROT ID:

Q00535

Full Name:

cyclin-dependent kinase 5

Calculated MW:

31 kDa, 33 kDa

Observed MW:

33 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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 : HepG2 cells, HCT 116 cells, mouse pancreas tissue, NIH/3T3 cells, WB result of CDK5 antibody (10430-1-AP; 1:1000; room temperature for 1.5 hours) with wild-type and CDK5 knockout HCT 116 cells, mouse brain tissue

IHC : mouse kidney tissue, human renal cell carcinoma tissue

IF/ICC : SH-SY5Y cells,

Background Information

Cyclin-dependent kinase 5 (CDK5), belongs to the cyclin-dependent kinase family, is a proline-directed serine/threonine-protein kinase that essential for neuronal cell cycle arrest and differentiation and may be involved in apoptotic cell death in neuronal diseases by triggering abortive cell cycle re-entry. CDK5 predominantly expressed in neurons where it phosphorylates both high molecular weight neurofilaments and microtubule-associated protein tau.

Notable Publications

Author	Pubmed ID	Journal	Application
Yue Li	29031852	Neuropharmacology	WB
Liu Wei W	22614921	J Cell Biochem	WB
Xiaolei Zhang	36382280	Chem Sci	WB

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

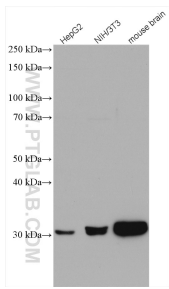
For technical support and original validation data for this product please contact:

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

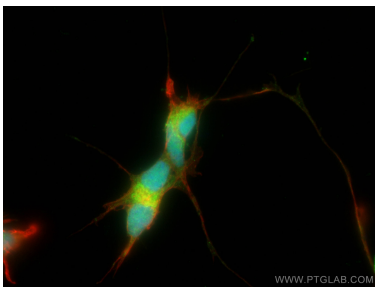
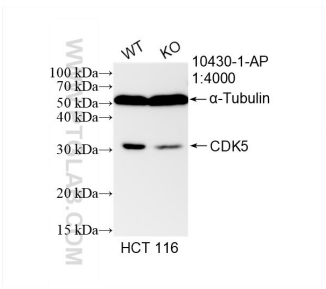
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Selected Validation Data

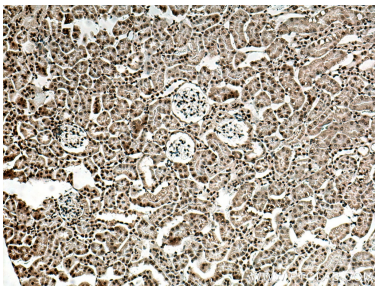


Various lysates were subjected to SDS PAGE followed by western blot with 10430-1-AP (CDK5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

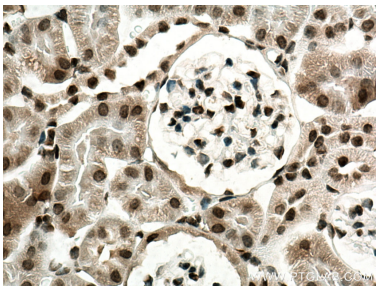
N/A



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using CDK5 antibody (10430-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10430-1-AP (CDK5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10430-1-AP (CDK5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).