

For Research Use Only

CDK5 Polyclonal antibody

Catalog Number:10430-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

10430-1-AP

Concentration:

1800 ug/ml

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

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, 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

IP: 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

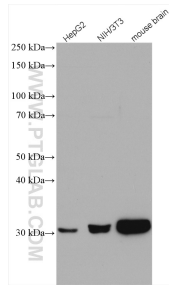
T: 4006900926

E: Proteintech-CN@ptglab.com

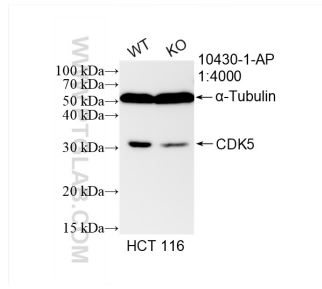
W: ptgcn.com

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

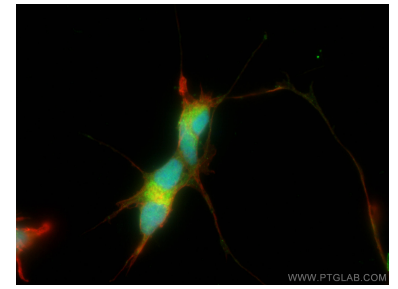
Selected Validation Data



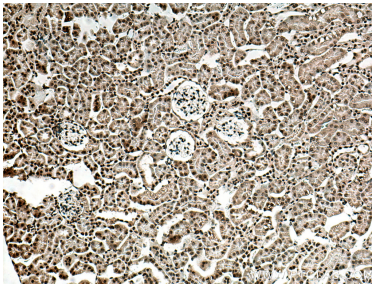
Various lysates were subjected to SDS PAGE followed by western blot with 10430-1-AP (CDK5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



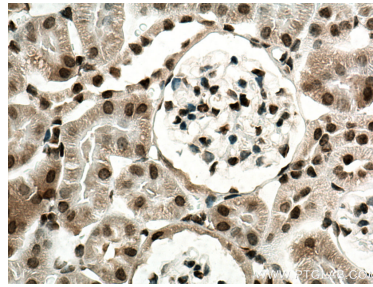
N/A



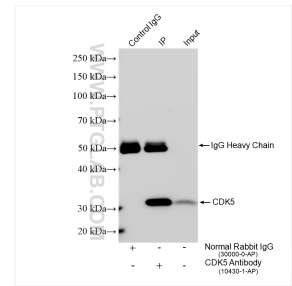
Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using CDK5 antibody (10430-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgC(H+L), CL594-Phalloidin (red).



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).



IP result of anti-CDK5 (IP:10430-1-AP, 4ug; Detection:10430-1-AP 1:3000) with mouse brain tissue lysate 2120 ug.