

For Research Use Only

# cyclin T2 Polyclonal antibody

Catalog Number: 21860-1-AP

1 Publications



## Basic Information

Catalog Number:	21860-1-AP	GenBank Accession Number:	BC114366	Purification Method:	Antigen affinity purification
Size:	150ul, Concentration: 900 ug/ml by Nanodrop;	GeneID (NCBI):	905	Recommended Dilutions:	WB: 1:1000-1:6000 IHC: 1:50-1:500
Source:	Rabbit	UNIPROT ID:	O60583		
Isotype:	IgG	Full Name:	cyclin T2		
Immunogen Catalog Number:	AG16514	Calculated MW:	730 aa, 81 kDa		
		Observed MW:	70 kDa		

## Applications

Tested Applications:	WB, IHC, ELISA	Positive Controls:	
Cited Applications:	WB	WB :	HepG2 cells, Jurkat cells, NIH/3T3 cells
Species Specificity:	human, mouse, rat	IHC :	mouse brain tissue, rat brain tissue
Cited Species:	human		
<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 T2 (CCNT2) belongs to the cyclin family. CCNT2 is regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin T) complex, also called positive transcription elongation factor B (P-TEFB), which is proposed to facilitate the transition from abortive to production elongation by phosphorylating the CTD (carboxy-terminal domain) of the large subunit of RNA polymerase II (RNAP II) (PMID: 9499409, PMID: 15563843). Cyclin T2 is expressed at a relatively high level in freshly isolated monocytes and its level remains constant when the cells are induced to undergo macrophage differentiation (PMID: 21791050). In contrast, Cyclin T1 is expressed at low levels in monocytes and it is strongly up-regulated by a post-transcriptional mechanism when the cells are induced to differentiate to macrophages.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi Wang	29849811	Oncol Lett	WB

## Storage

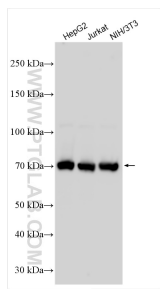
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

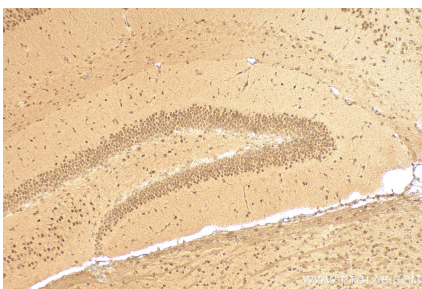
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

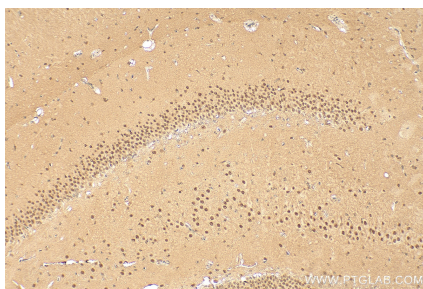
## Selected Validation Data



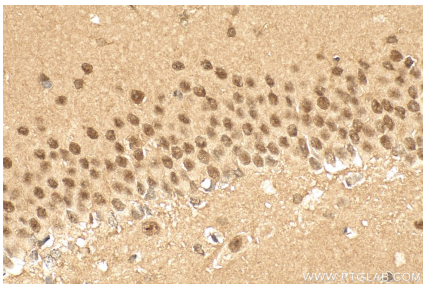
Various lysates were subjected to SDS PAGE followed by western blot with 21860-1-AP (cyclin T2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21860-1-AP (cyclin T2 antibody) at dilution of 1:200 (under 4010x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 21860-1-AP (cyclin T2 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 rat brain tissue slide using 21860-1-AP (cyclin T2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).