

For Research Use Only

# Cyclin A1 Polyclonal antibody

Catalog Number: 13295-1-AP **28 Publications**



## Basic Information

<b>Catalog Number:</b> 13295-1-AP	<b>GenBank Accession Number:</b> BC036346	<b>Purification Method:</b> Antigen affinity purification
<b>Concentration:</b> 650 µg/ml	<b>GeneID (NCBI):</b> 8900	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P78396	
<b>Isotype:</b> IgG	<b>Full Name:</b> cyclin A1	
<b>Immunogen Catalog Number:</b> AG4005	<b>Calculated MW:</b> 464 aa, 52 kDa <b>Observed MW:</b> 52 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : mouse testis tissue, rat testis tissue IHC : mouse testis tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	
<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

CCNA1 belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. CCNA1 binds both CDK2 and CDC2 kinases, which give two distinct kinase activities, one appearing in S phase, the other in G2, and thus regulate separate functions in cell cycle. CCNA1 was found to bind to important cell cycle regulators, such as Rb family proteins, transcription factor E2F-1, and the p21 family proteins. In general, the expression of CCNA1 is tissue-specific and high CCNA1 expression is limited to testis; besides, lower levels of CCNA1 expression are also observed in other human cell lines and in healthy brain. Currently, CCNA1 expression has been illustrated to be downregulated in various tumors, including head and neck squamous-cell cancer (HNSCC) and nasopharyngeal carcinoma; and the promoter of the CCNA1 gene is found to be frequently methylated in colon cancer and HNSCC.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jing Wang	26409448	Tumour Biol	WB
Yuan Zhao	27731405	Sci Rep	WB
Yun Liu	30535498	Int J Mol Med	WB

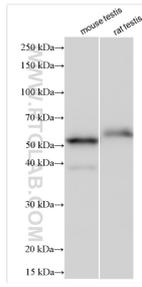
## Storage

**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

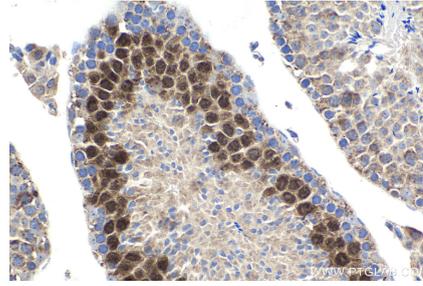
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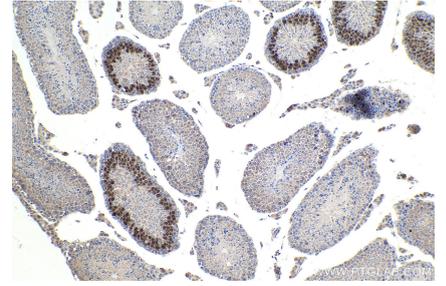
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13295-1-AP (Cyclin A1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13295-1-AP (Cyclin A1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13295-1-AP (Cyclin A1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).