

## Cyclin A Polyclonal Antibody

YP-Ab-16720
lgG
Human;Mouse;Rat;Monkey
WB;IHC;IF;ELISA
CCNA1/CCNA2
Cyclin-A1/2
The antiserum was produced against synthesized peptide derived from human Cyclin A. AA range:221-270
Cyclin A Polyclonal Antibody detects endogenous levels of Cyclin A protein.
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Polyclonal, Rabbit,IgG
The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
1 mg/ml
≥90%
-20°C/1 year
CCNA1; Cyclin-A1; CCNA2; CCN1; CCNA; Cyclin-A2; Cyclin-A
53kD
Nucleus .
Very high levels in testis and very low levels in brain. Also found in myeloid leukemia cell lines.
developmental stage: Expression increases in early G1 phase and reaches highest levels during the S and G2/M phases., function: May be involved in the control of the cell cycle at the G1/S (start) and G2/M (mitosis) transitions. May primarily function in the control of the germline meiotic cell cycle and additionally in the control of mitotic cell cycle in some somatic cells., similarity: Belongs to the cyclin family., similarity: Belongs to the cyclin family. Cyclin AB subfamily., subunit: Interacts with the CDK2 and the CDC2 protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Does not bind CDK4 and CDK5 (in vitro). The cyclin A1-CDK2 complex interacts with transcription factor E2F-1 and RB proteins. Found in a complex with CDK2, CABLES1 and CCNE1 (By similarity). Interacts with INCA1 and KLHDC9., tissue specificit



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BackgroundThe protein encoded by this gene belongs to the highly conserved cyclin family,<br/>whose members are characterized by a dramatic periodicity in protein abundance<br/>through the cell cycle. Cyclins function as regulators of CDK kinases. Different<br/>cyclins exhibit distinct expression and degradation patterns which contribute to the<br/>temporal coordination of each mitotic event. The cyclin encoded by this gene was<br/>shown to be expressed in testis and brain, as well as in several leukemic cell<br/>lines, and is thought to primarily function in the control of the germline meiotic cell<br/>cycle. This cyclin binds both CDK2 and CDC2 kinases, which give two distinct<br/>kinase activities, one appearing in S phase, the other in G2, and thus regulate<br/>separate functions in cell cycle. This cyclin was found to bind to important cell<br/>cycle regulators, such as Rb family proteins, transcription factor E2F-1, and the<br/>p21 family proteins. MultiWatters needing<br/>attentionAvoid repeated freezing and thawing!Usage suggestionsThis product can be used in immunological reaction related experiments. For<br/>more information, please consult technical personnel.

## **Products Images**

	Immunofluorescence analysis of Hela cell. 1,Cyclin A Polyclonal Antibody(red) was diluted at 1:200(4° overnight). β-actin Monoclonal Antibody(5B7)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).
	Immunofluorescence analysis of mouse-kidney tissue. 1,Cyclin A Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B
	Immunofluorescence analysis of mouse-kidney tissue. 1,Cyclin A Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B
Reparin Color	Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,Cyclin A Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.
Negative Control	Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,Cyclin A Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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