
Product Name: Cyclin A1 Rabbit Polyclonal Antibody**Catalog #: APRab09578**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
Molecular Weight	52kDa

Antigen Information

Gene Name	CCNA1
Alternative Names	CCNA1; Cyclin-A1
Gene ID	8900.0
SwissProt ID	P78396
Immunogen	The antiserum was produced against synthesized peptide derived from human Cyclin A1. AA range:411-460

Background

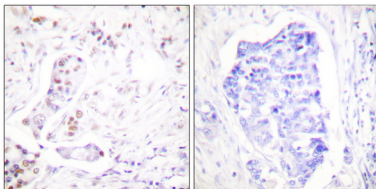
The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a

dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. The cyclin encoded by this gene was shown to be expressed in testis and brain, as well as in several leukemic cell lines, and is thought to primarily function in the control of the germline meiotic cell cycle. This cyclin 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. This cyclin was found to bind to important cell cycle regulators, such as Rb family proteins, transcription factor E2F-1, and the p21 family proteins. Multidevelopmental 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 specificity: Very high levels in testis and very low levels in brain. Also found in myeloid Leukemia cell lines.,

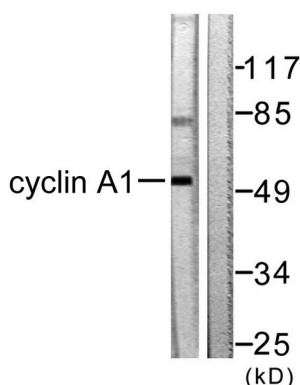
Research Area

AMPK

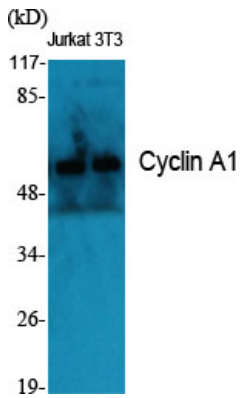
Image Data



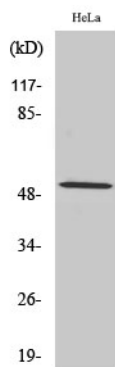
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Cyclin A1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from SKOV3 cells, using Cyclin A1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Cyclin A1 Polyclonal Antibody diluted at 1: 2000



Western Blot analysis of HeLa cells using Cyclin A1 Polyclonal Antibody diluted at 1 : 2000