

## Product datasheet for **TA323776**

### Cyclin A1 (CCNA1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: 293T cell lysate IHC: 50-100 Positive control: Human breast cancer Predicted cell location: Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 300 amino acids of human cyclin A1
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	52 kDa
Gene Name:	cyclin A1
Database Link:	<a href="#">NP_001104515</a> <a href="#">Entrez Gene 12427 Mouse</a> <a href="#">Entrez Gene 295052 Rat</a> <a href="#">Entrez Gene 8900 Human</a> <a href="#">P78396</a>



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**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. Multiple transcript variants encoding different isoforms have been found for this gene.

**Synonyms:**

CT146

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Acute myeloid leukemia, Cell cycle, Pathways in cancer, Progesterone-mediated oocyte maturation

**Product images:**

kDa

130—  
95—  
72—  
55—  
36—  
28—  
17—

Gel: 8%SDS-PAGE

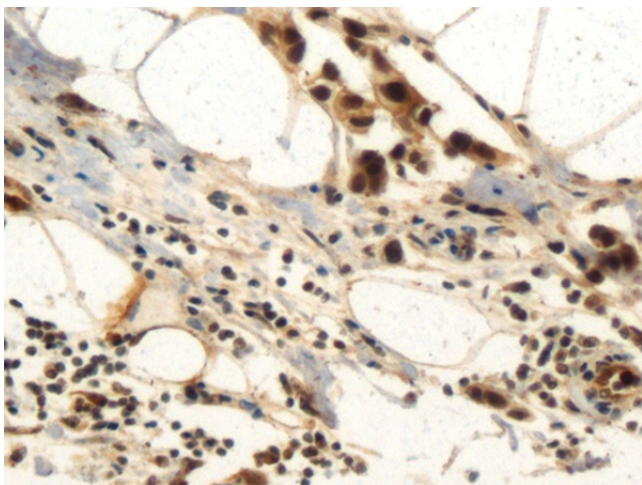
Lysate: 40 µg

Lane: 293T cell lysate

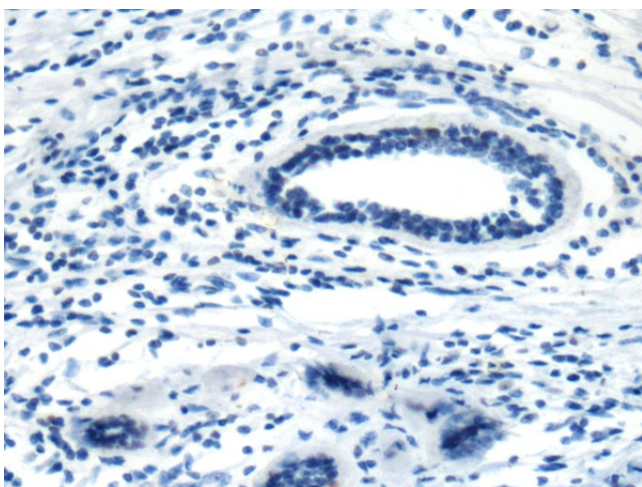
Primary antibody: TA323776 (CCNA1 Antibody) at dilution 1/700

Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution

Exposure time: 5 minutes



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA323776 (CCNA1 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA323776 (CCNA1 Antibody) at dilution 1/50, treated with fusion protein. (Original magnification:  $\times 200$ )