

## Summary

|                        |                                      |
|------------------------|--------------------------------------|
| <b>Production Name</b> | Cyclin E1 Rabbit Polyclonal Antibody |
| <b>Description</b>     | Rabbit Polyclonal Antibody           |
| <b>Host</b>            | Rabbit                               |
| <b>Application</b>     | WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA      |
| <b>Reactivity</b>      | Human,Mouse,Rat,Pig                  |

## Performance

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| <b>Conjugation</b>  | Unconjugated                                                                                      |
| <b>Modification</b> | Unmodified                                                                                        |
| <b>Isotype</b>      | IgG                                                                                               |
| <b>Clonality</b>    | Polyclonal                                                                                        |
| <b>Form</b>         | Liquid                                                                                            |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b> | Affinity purification                                                                             |

## Immunogen

|                          |                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | CCNE1                                                                                                       |
| <b>Alternative Names</b> | CCNE1; CCNE; G1/S-specific cyclin-E1                                                                        |
| <b>Gene ID</b>           | 898.0                                                                                                       |
| <b>SwissProt ID</b>      | P24864.The antiserum was produced against synthesized peptide derived from human Cyclin E1. AA range:91-140 |

## Application

|                         |                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:20000.Not yet tested in other applications. |
| <b>Molecular Weight</b> | 49kDa                                                                                                                  |

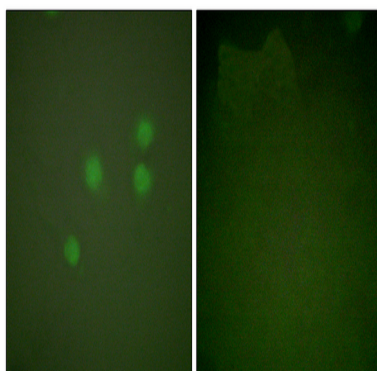
## Background

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. This cyclin forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in function: Essential for the control of the cell cycle at the G1/S (start) transition., PTM: Phosphorylation of Thr-395 by GSK3 and of Ser-399 by CDK2 accelerates degradation via the ubiquitin proteasome pathway. Phosphorylated upon DNA damage, probably by ATM or ATR., similarity: Belongs to the cyclin family. Cyclin E subfamily., subunit: Interacts with a member of the CDK2/CDK protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Interacts with retinoblastoma binding protein 3 and retinoblastoma-like protein 1. Found in a complex with CDK2, CABLES1 and CCNA1 (By similarity). Part of a complex consisting of UHRF2, CDK2 and CCNE1., tissue specificity: Highly expressed in testis and placenta. Low levels in bronchial epithelial cells.,

## Research Area

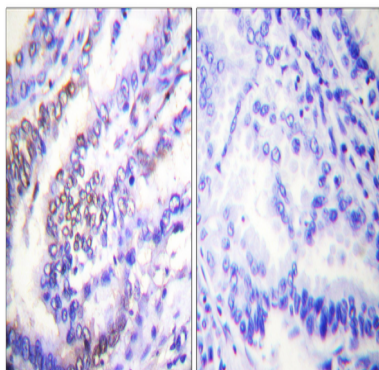
Cell\_Cycle\_G1S; Cell\_Cycle\_G2M\_DNA; Oocyte meiosis; p53; Pathways in cancer; Prostate cancer; Small cell lung cancer;

## Image Data

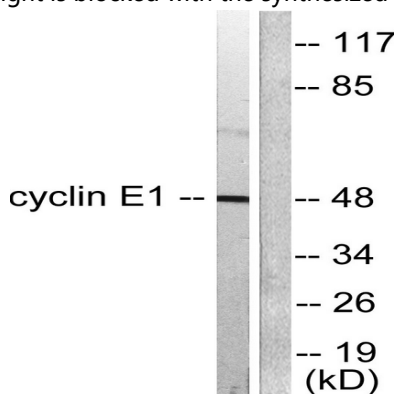


Immunofluorescence analysis of A549 cells, using Cyclin E1 Antibody. The picture on the right is blocked with the synthesized peptide.

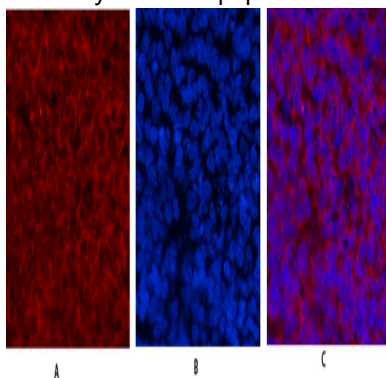
**Product Name: Cyclin E1 Rabbit Polyclonal Antibody**  
**Catalog #: APRab09595**



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Cyclin E1 Antibody. The picture on the right is blocked with the synthesized peptide.

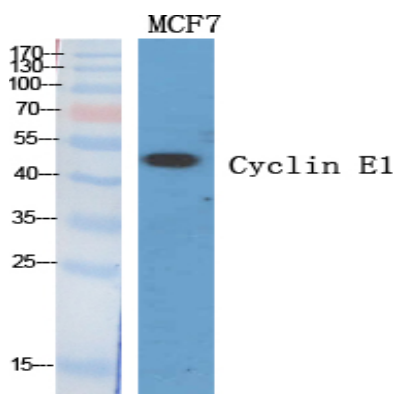


Western blot analysis of lysates from K562 cells, using Cyclin E1 Antibody. The lane on the right is blocked with the synthesized peptide.

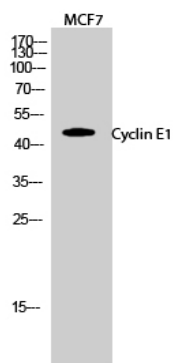


Immunofluorescence analysis of rat-spleen tissue. 1, Cyclin E1 Polyclonal Antibody (red) was diluted at 1:200 (4°, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

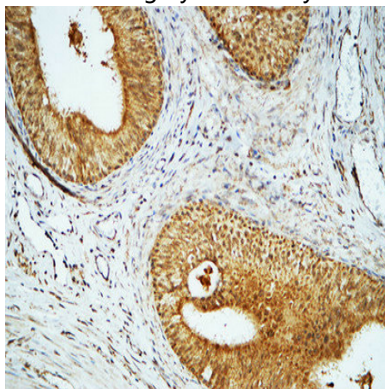
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Western Blot analysis of various cells using Cyclin E1 Polyclonal Antibody diluted at 1: 500

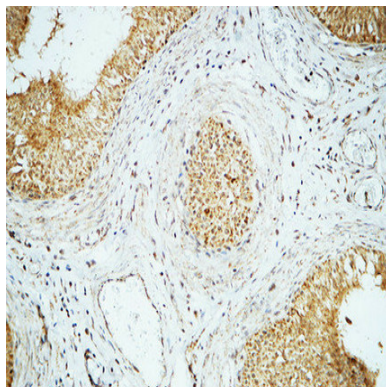


Western Blot analysis of MCF7 cells using Cyclin E1 Polyclonal Antibody diluted at 1: 500

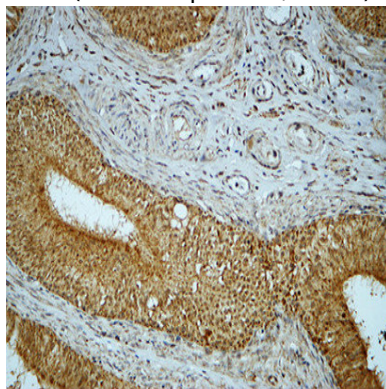


Immunohistochemical analysis of paraffin-embedded Human testis. 1, Antibody was diluted at 1:200 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .

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Immunohistochemical analysis of paraffin-embedded Human testis. 1, Antibody was diluted at 1:200 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .

## **Note**

For research use only.