

**CCNE1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6270b**

**Specification**

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**CCNE1 Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">P24864</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	373-402

**CCNE1 Antibody (C-term) - Additional Information**

**Gene ID** 898

**Other Names**

G1/S-specific cyclin-E1, CCNE1, CCNE

**Target/Specificity**

This CCNE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 373-402 amino acids from the C-terminal region of human CCNE1.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CCNE1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CCNE1 Antibody (C-term) - Protein Information**

**Name** CCNE1

**Synonyms** CCNE

**Function** Essential for the control of the cell cycle at the G1/S (start) transition.

**Cellular Location**

Nucleus.

**Tissue Location**

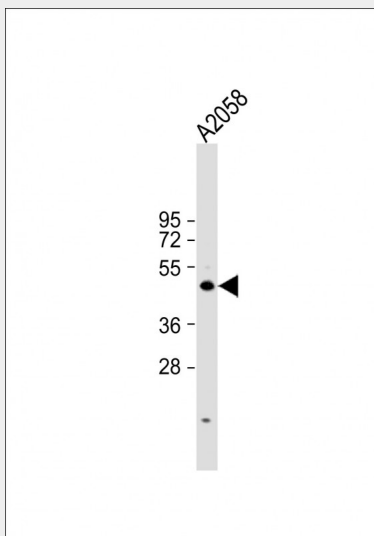
Highly expressed in testis and placenta. Low levels in bronchial epithelial cells.

**CCNE1 Antibody (C-term) - Protocols**

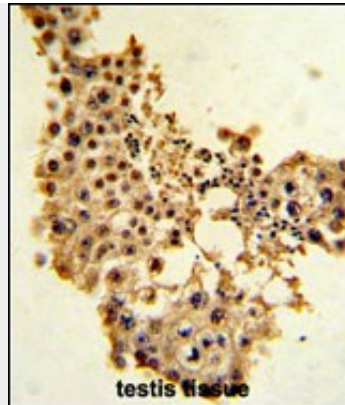
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

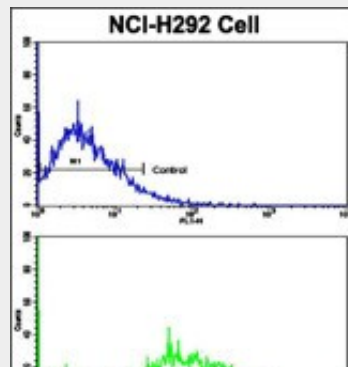
**CCNE1 Antibody (C-term) - Images**



Anti-Cyclin E1 Antibody at 1:1000 dilution + A2058 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Formalin-fixed and paraffin-embedded human testis tissue with Cyclin E1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of NCI-H292 cells using Cyclin E1 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### CCNE1 Antibody (C-term) - Background

Cyclin E1 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. Cyclin E1 forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. Cyclin E1 accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Overexpression of Cyclin E1 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 cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB.

### CCNE1 Antibody (C-term) - References

- Ausserlechner, M.J., et al., *Leukemia* 19(6):1051-1057 (2005).
- Wingate, H., et al., *J. Biol. Chem.* 280(15):15148-15157 (2005).
- Honda, R., et al., *EMBO J.* 24(3):452-463 (2005).
- Brzezinski, J., et al., *Clin. Cancer Res.* 11(3):1037-1043 (2005).
- Hayami, R., et al., *Cancer Res.* 65(1):6-10 (2005).