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# CCND1 Antibody (Center)
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP2612c**

## Specification

### CCND1 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | Q6FI00 |
| Other Accession | P24385 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **33729** |
| Antigen Region | **147-175** |

### CCND1 Antibody (Center) - Additional Information

**Gene ID** 595

**Other Names**
CCND1 protein; Cyclin D1, isoform CRA_c; cDNA, FLJ93625, Homo sapiens cyclin D1 (PRAD1: parathyroid adenomatosis 1) (CCND1), mRNA; Cyclin D1; PRAD1: parathyroid adenomatosis 1; CCND1

**Target/Specificity**
This CCND1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 147-175 amino acids from the Central region of human CCND1.

**Dilution**
WB~~1:1000

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**
CCND1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### CCND1 Antibody (Center) - Protein Information

**Name** CCND1 {ECO:0000313|EMBL:CAG38775.1}

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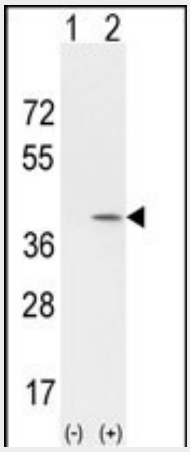
## CCND1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CCND1 Antibody (Center) - Images




Western blot analysis of CCND1 (arrow) using rabbit polyclonal CCND1 Antibody (Center) (Cat. c#AP2612c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CCND1 gene (Lane 2) (Origene Technologies).

## CCND1 Antibody (Center) - Background

CCND1 belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout 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 CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of the gene encoding this protein, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis.

## CCND1 Antibody (Center) - References

He,Y.Y., Cancer Res. 68 (10), 3752-3758 (2008)
Marsit,C.J., Clin. Cancer Res. 14 (8), 2371-2377 (2008)
Caldon,C.E., Cancer Res. 68 (8), 3026-3036 (2008)

## CCND1 Antibody (Center) - Citations

- Dysregulation of Krüppel-like factor 12 in the development of endometrial cancer.
- Targeting the overexpressed CREB inhibits esophageal squamous cell carcinoma cell growth.

- Combination of metformin and sorafenib suppresses proliferation and induces autophagy of hepatocellular carcinoma via targeting the mTOR pathway.
- Metformin inhibits proliferation and enhances chemosensitivity of intrahepatic cholangiocarcinoma cell lines.