

CCND1 Antibody (C-term T286)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5109

Specification

CCND1 Antibody (C-term T286) - Product Information

Application	WB,E
Primary Accession	P24385
Other Accession	Q2KI22 , Q6FI00
Reactivity	Human, Rat
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=34 ;M=33;Rat=33 KDa
Isotype	Rabbit IgG
Antigen Source	Human

CCND1 Antibody (C-term T286) - Additional Information

Gene ID 595

Antigen Region
264-292

Other Names

CCND1;BCL1; PRAD1; G1/S-specific cyclin-D1; G1/S-specific cyclin-D1; B-cell lymphoma 1 protein; G1/S-specific cyclin-D1; BCL-1 oncogene; G1/S-specific cyclin-D1; PRAD1 oncogene

Dilution

WB~~1:1000

Target/Specificity

This CCND1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 264-292 amino acids from the C-terminal region of human CCND1.

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

CCND1 Antibody (C-term T286) is for research use only and not for use in diagnostic or therapeutic procedures.

CCND1 Antibody (C-term T286) - Protein Information

Name CCND1 {ECO:0000303|PubMed:8204893, ECO:0000312|HGNC:HGNC:1582}

Function

Regulatory component of the cyclin D1-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition (PubMed: [1827756](http://www.uniprot.org/citations/1827756), PubMed: [1833066](http://www.uniprot.org/citations/1833066), PubMed: [19412162](http://www.uniprot.org/citations/19412162), PubMed: [33854235](http://www.uniprot.org/citations/33854235), PubMed: [8114739](http://www.uniprot.org/citations/8114739), PubMed: [8302605](http://www.uniprot.org/citations/8302605)). Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase (PubMed: [1827756](http://www.uniprot.org/citations/1827756), PubMed: [1833066](http://www.uniprot.org/citations/1833066), PubMed: [19412162](http://www.uniprot.org/citations/19412162), PubMed: [8114739](http://www.uniprot.org/citations/8114739), PubMed: [8302605](http://www.uniprot.org/citations/8302605)). Hypophosphorylates RB1 in early G(1) phase (PubMed: [1827756](http://www.uniprot.org/citations/1827756), PubMed: [1833066](http://www.uniprot.org/citations/1833066), PubMed: [19412162](http://www.uniprot.org/citations/19412162), PubMed: [8114739](http://www.uniprot.org/citations/8114739), PubMed: [8302605](http://www.uniprot.org/citations/8302605)). Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals (PubMed: [1827756](http://www.uniprot.org/citations/1827756), PubMed: [1833066](http://www.uniprot.org/citations/1833066), PubMed: [19412162](http://www.uniprot.org/citations/19412162), PubMed: [8302605](http://www.uniprot.org/citations/8302605)). Also a substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity (PubMed: [15241418](http://www.uniprot.org/citations/15241418)). Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (PubMed: [9106657](http://www.uniprot.org/citations/9106657)). Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner (PubMed: [16569215](http://www.uniprot.org/citations/16569215), PubMed: [18417529](http://www.uniprot.org/citations/18417529)).

Cellular Location

Nucleus. Cytoplasm Nucleus membrane. Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members

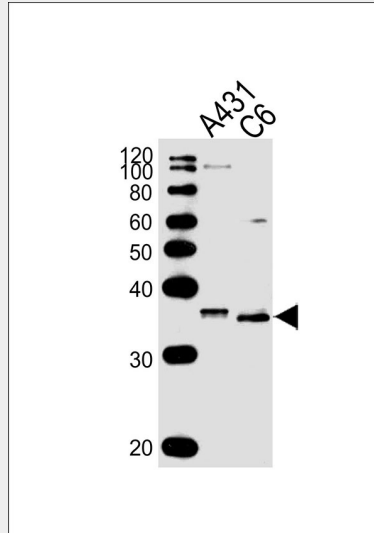
CCND1 Antibody (C-term T286) - Protocols

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](#)

CCND1 Antibody (C-term T286) - Images



Western blot analysis of lysates from A431, rat C6 cell line (from left to right), using Phospho-CCND1 Antibody (T286) (Cat. #AW5109). AW5109 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

CCND1 Antibody (C-term T286) - Background

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