

**Cyclin D1 Rabbit mAb**  
Catalog # AP78958**Specification****Cyclin D1 Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P24385</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>33729</b>

**Cyclin D1 Rabbit mAb - Additional Information****Gene ID** 595**Other Names**  
CCND1**Dilution**  
WB~~1/500-1/1000**Format**  
Liquid**Cyclin D1 Rabbit mAb - 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: [1827756](http://www.uniprot.org/citations/1827756), PubMed: [1827756](http://www.uniprot.org/citations/1827756)).

[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

#### Cyclin D1 Rabbit mAb - 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](#)

#### Cyclin D1 Rabbit mAb - Images



