

Product Name: Cyclin D1 (10Z18) Rabbit Monoclonal Antibody
Catalog #: AMRe09589



Summary

Production Name	Cyclin D1 (10Z18) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	CCND1 {ECO:0000303 PubMed:8204893, ECO:0000312 HGNC:HGNC:1582}
Alternative Names	CCND1;BCL1; D11S287E; PRAD1; U21B31; Cyclin D1;
Gene ID	595.0
SwissProt ID	P24385.

Application

Dilution Ratio	WB 1:1000-1:5000
Molecular Weight	34kDa

Background

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 G1 phase. Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. 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:[1833066](http://www.uniprot.org/citations/1833066), PubMed:[1827756](http://www.uniprot.org/citations/1827756), PubMed:[8114739](http://www.uniprot.org/citations/8114739), PubMed:[8302605](http://www.uniprot.org/citations/8302605), PubMed:[19412162](http://www.uniprot.org/citations/19412162), PubMed:[33854235](http://www.uniprot.org/citations/33854235)). 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:[1833066](http://www.uniprot.org/citations/1833066), PubMed:[1827756](http://www.uniprot.org/citations/1827756), PubMed:[8114739](http://www.uniprot.org/citations/8114739), PubMed:[8302605](http://www.uniprot.org/citations/8302605), PubMed:[19412162](http://www.uniprot.org/citations/19412162)). Hypophosphorylates RB1 in early G(1) phase (PubMed:[1833066](http://www.uniprot.org/citations/1833066), PubMed:[1827756](http://www.uniprot.org/citations/1827756), PubMed:[8114739](http://www.uniprot.org/citations/8114739), PubMed:[8302605](http://www.uniprot.org/citations/8302605), PubMed:[19412162](http://www.uniprot.org/citations/19412162)). Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals (PubMed:[1833066](http://www.uniprot.org/citations/1833066), PubMed:[1827756](http://www.uniprot.org/citations/1827756), PubMed:[8302605](http://www.uniprot.org/citations/8302605), PubMed:[19412162](http://www.uniprot.org/citations/19412162)). Also 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:[16569215](http://www.uniprot.org/citations/16569215)).

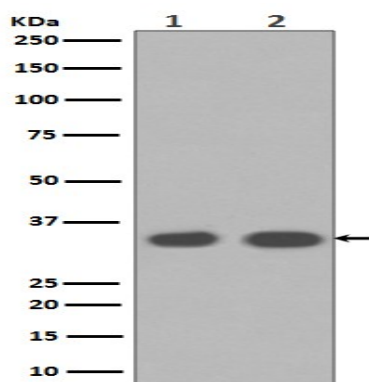
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<http://www.uniprot.org/citations/18417529> target="_blank">18417529).

Research Area

Image Data



Western blot analysis of Cyclin D1 expression in (1)MCF-7 cell lysates;(2) LnCaP cell lysates.

Note

For research use only.