

# Cyclin D1 Antibody HRP Conjugated

Catalog No: #C00353H

Package Size: #C00353H 100ul

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## Description

Product Name	Cyclin D1 Antibody HRP Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	WB IHC-P
Species Reactivity	Hu Ms Rt Goat
Immunogen Description	KLH conjugated synthetic peptide aa 70-120 295 derived from mouse Cyclin D1
Conjugates	HRP
Target Name	Cyclin D1
Other Names	cD1; CycD1; Cyl-1; PRAD1; bcl-1; AI32739; G1 S-specific cyclin-D1; Ccnd1
Accession No.	Swiss-Prot#P25322NCBI Gene ID12443
Cell Localization	Cytoplasm, Nucleus
Concentration	1mg ml
Formulation	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% Gentamicin.
Storage	Store at 4C for 12 months.

## Application Details

Western blotting: 1:100-1000Immunohistochemistry1:100-500

## Background

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. 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. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D1 CDK4 CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner (By similarity).

## Published Papers

el at., Forkhead box protein O3 suppresses uveal melanoma development by increasing the expression of Bcl-2-like protein 11 and cyclin-dependent kinase inhibitor 1B Mol Med Rep. On 2018 Feb by Yan F, Liao R et al..PMID: 29257235, (2018)

[PMID:29257235](https://pubmed.ncbi.nlm.nih.gov/29257235/)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.