

Datasheet for ABIN3021887

**anti-Cyclin D1 antibody (C-Term)****3** Images**6** Publications[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	Cyclin D1 (CCND1)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin D1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

## Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 200 to the C-terminus of human Cyclin D1 (NP_444284.1).
Sequence:	PSMVAAGSVV AAVQGLNLRS PNNFLSYRL TRFLSRVIKC DPDCLRACQE QIEALLESSL RQAQQNMDPK AAEEEEEEEE EVDLACTPTD VRDVDI
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

Target:	Cyclin D1 (CCND1)
Alternative Name:	CCND1 ( <a href="#">CCND1 Products</a> )
Background:	<p>The protein encoded by this gene 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 this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis.,BCL1,D11S287E,PRAD1,U21B31,CCND1,Cyclin D1,cyclin D1,Epigenetics &amp; Nuclear Signaling,Cancer,Signal Transduction,PI3K-Akt Signaling Pathway,Cell Biology &amp; Developmental Biology,Cell Cycle,Cyclins,G1/S Checkpoint,Hedgehog Signaling Pathway,CCND1</p>
Molecular Weight:	33 kDa
Gene ID:	595
UniProt:	<a href="#">P24385</a>
Pathways:	<a href="#">PI3K-Akt Signaling</a> , <a href="#">Cell Division Cycle</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">ER-Nucleus Signaling</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:100
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles

## Handling

---

Storage: -20 °C

---

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

---

## Publications

---

Product cited in: Wu, Xiong, Li, Yang, Ge et al.: "Integrated Proteomic and Transcriptomic Analysis Reveals Long Noncoding RNA HOX Transcript Antisense Intergenic RNA (HOTAIR) Promotes Hepatocellular Carcinoma Cell Proliferation by Regulating Opioid ..." in: **Molecular & cellular proteomics : MCP**, Vol. 17, Issue 1, pp. 146-159, (2019) ([PubMed](#)).

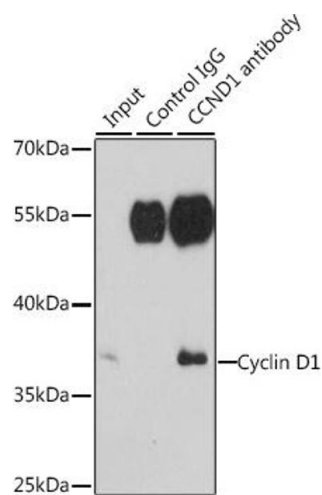
Deng, Wang, Zhao, Zhang, Chen, Zhao, Liu, Sun, Zhang, Ye, Du: "MICAL1 facilitates breast cancer cell proliferation via ROS-sensitive ERK/cyclin D pathway." in: **Journal of cellular and molecular medicine**, Vol. 22, Issue 6, pp. 3108-3118, (2018) ([PubMed](#)).

Wang, Huang, Zhang, Hou, Liu, Chen, Zhu, Zhang: "Toosendanin suppresses oncogenic phenotypes of human gastric carcinoma SGC-7901 cells partly via miR-200a-mediated downregulation of  $\beta$ -catenin pathway." in: **International journal of oncology**, Vol. 51, Issue 5, pp. 1563-1573, (2018) ([PubMed](#)).

Li, Kang, Yin, Li, Chen, Li, Zhang, Qiu: "Ginsenoside Rh2 inhibits human A172 glioma cell proliferation and induces cell cycle arrest status via modulating Akt signaling pathway." in: **Molecular medicine reports**, Vol. 17, Issue 2, pp. 3062-3068, (2018) ([PubMed](#)).

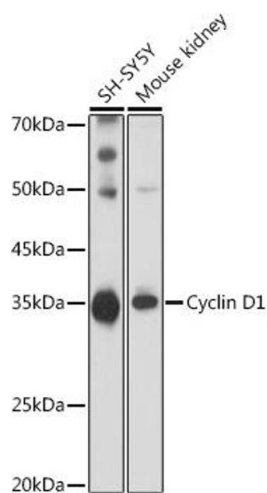
Li, Lv, He, Wang, Zhang, Lu, Ren, Wang, Zhu, Ding, Liao, Ding, Liang: "The SOX17/miR-371-5p/SOX2 axis inhibits EMT, stem cell properties and metastasis in colorectal cancer." in: **Oncotarget**, Vol. 6, Issue 11, pp. 9099-112, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



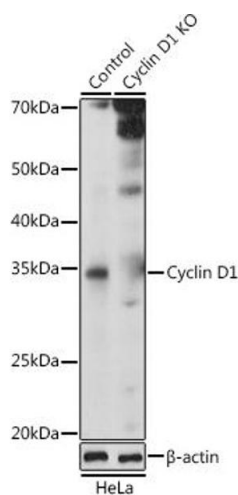
### Immunoprecipitation

**Image 1.** Immunoprecipitation analysis of 200 µg extracts of HepG2 cells, using 3 µg Cyclin D1 antibody . Western blot was performed from the immunoprecipitate using Cyclin D1 antibody at a dilution of 1:1000.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using Cyclin D1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



### Western Blotting

**Image 3.** Western blot analysis of extracts from normal (control) and Cyclin D1 knockout (KO) HeLa cells, using Cyclin D1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.