

Datasheet for ABIN3043483

anti-Cyclin D1 antibody (Middle Region)

2 Images

21 Publications



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Cyclin D1 (CCND1)
Binding Specificity:	AA 158-184, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin D1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for G1/S-specific cyclin-D1(CCND1) detection. Tested with WB in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Cyclin D1 (158-184aa HDFIEHFLSKMPEAEENKQIIRKHAQT), different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid.
Sequence:	HDFIEHFLSK MPEAEENKQI IRKHAQT
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for G1/S-specific cyclin-D1(CCND1) detection. Tested with WB in Human. Gene Name: cyclin D1

Product Details

Protein Name: G1/S-specific cyclin-D1

Purification: Immunogen affinity purified.

Target Details

Target: Cyclin D1 (CCND1)

Alternative Name: CCND1 ([CCND1 Products](#))

Background: Cyclin D1, also known as CCND1, is a human gene. 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. Cyclin D1 encodes the regulatory subunit of a holoenzyme that phosphorylates and inactivates the retinoblastoma protein and promotes progression through the G1-S phase of the cell cycle. Amplification or overexpression of cyclin D1 plays pivotal roles in the development of a subset of human cancers including parathyroid adenoma, breast cancer, colon cancer, lymphoma, melanoma, and prostate cancer. The cyclin D1 gene is overexpressed in human breast cancers and is required for oncogene-induced tumorigenesis. Briskin et al. (2003) found that prolactin induced IGF2 mRNA and IGF2 induced cyclin D1 protein expression in mouse mammary epithelial cultures. And they also concluded that IGF2 is a mediator of prolactin-induced alveologenesis and that prolactin, IGF2, and cyclin D1 are components of a developmental pathway in mammary gland.

Synonyms: A1327039 antibody|B cell ccl/lymphoma 1 antibody|B cell CLL/lymphoma 1 antibody|B cell leukemia 1 antibody|B cell leukemia 1 antibody|B cell lymphoma 1 protein antibody|B-cell lymphoma 1 protein antibody|BCL 1 antibody|BCL-1 antibody|BCL-1 oncogene antibody|BCL1 antibody|BCL1 oncogene antibody|CCND 1 antibody|CCND1 antibody|CCND1 protein antibody|CCND1/FSTL3 fusion gene, included antibody|CCND1/IGHG1 fusion gene antibody|CCND1/IGHG1 fusion gene, included antibody|CCND1/IGLC1 fusion gene, included antibody|CCND1/PTH fusion gene, included antibody|CCND1_HUMAN antibody|cD1 antibody|Cyl 1 antibody|D11S287E antibody|G1/S specific cyclin D1 antibody|G1/S-specific cyclin-D1 antibody|Parathyroid adenomatosis 1 antibody|PRAD1 antibody|PRAD1 oncogene antibody|U21B31 antibody

Gene ID: 595

UniProt: [P24385](#)

Pathways: [PI3K-Akt Signaling](#), [Cell Division Cycle](#), [Mitotic G1-G1/S Phases](#), [ER-Nucleus Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for Cyclin D1 is approximately 0.1 ng/lane under reducing conditions.
Notes: Tested Species: Species with positive results.
Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

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 repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Yang, Gao, Ma, Teng, Liu, Wei, Lu, Cheng, Hou, Zou: "Fucoidan inhibits lymphangiogenesis by downregulating the expression of VEGFR3 and PROX1 in human lymphatic endothelial cells." in: **Oncotarget**, Vol. 7, Issue 25, pp. 38025-38035, (2018) ([PubMed](#)).

Feng, Yan, Zhou, Liang, Liang, Zhao, Dong, Ling: "Piwil2 is reactivated by HPV oncoproteins and initiates cell reprogramming via epigenetic regulation during cervical cancer tumorigenesis." in: **Oncotarget**, Vol. 7, Issue 40, pp. 64575-64588, (2018) ([PubMed](#)).

Li, Zheng, Ji, Liu, Lv, Yang, Hu, Chen, Zhang, Cao: "Effects of low-intensity ultrasound combined

with low-dose carboplatin in an orthotopic hamster model of tongue cancer: A preclinical study.
" in: **Oncology reports**, Vol. 39, Issue 4, pp. 1609-1618, (2018) ([PubMed](#)).

Li, Wang, Zhou, Shuang, Zhao, Chen: "Up-Regulation of Long Noncoding RNA SRA Promotes Cell Growth, Inhibits Cell Apoptosis, and Induces Secretion of Estradiol and Progesterone in Ovarian Granular Cells of Mice." in: **Medical science monitor : international medical journal of experimental and clinical research**, Vol. 24, pp. 2384-2390, (2018) ([PubMed](#)).

Xiao, Dong, Cheng, Mao, Zong, Wu, Wang, Xie, Wang, Lei, Guo: "LRIG2 promotes the proliferation and cell cycle progression of glioblastoma cells in vitro and in vivo through enhancing PDGFR β signaling." in: **International journal of oncology**, Vol. 53, Issue 3, pp. 1069-1082, (2018) ([PubMed](#)).

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

Images



Western Blotting

Image 1. Anti- Cyclin D1 Picoband antibody, Western blotting All lanes: Anti Cyclin D1 at 0.5ug/ml Lane 1: Human Placenta Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: 293T Whole Cell Lysate at 40ug Predicted bind size: 33KD Observed bind size: 33KD

Western Blotting

Image 2. Anti- Cyclin D1 Picoband antibody, Western blottingAll lanes: Anti Cyclin D1 at 0.5ug/ml Lane 1: Human Placenta Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: 293T Whole Cell Lysate at 40ugPredicted bind size: 33KDObserved bind size: 33KD