

## Anti-Cyclin D1/CCND1 Antibody Picoband®

Catalog Number: PA1245-1

### About Ccnd1

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. Brisken et al. (2003) found that prolactin (PRL; 176760) induced IGF2 (147470) 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.

### Overview

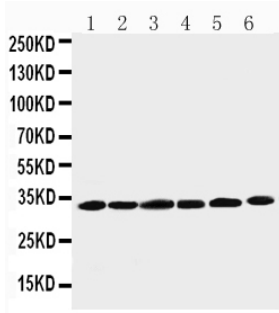
Product Name	Anti-Cyclin D1/CCND1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cyclin D1/CCND1 Antibody catalog # PA1245-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P25322

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Cyclin D1, identical to the related rat sequence, and different from the related human sequence by three amino acids.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

## Anti-Cyclin D1/CCND1 Antibody Picoband® (PA1245-1) Images



Anti-Cyclin D1 antibody, PA1245-1, Western blotting  
Lane 1: Rat Testis Tissue Lysate  
Lane 2: Rat Ovary Tissue Lysate  
Lane 3: Rat Brain Tissue Lysate  
Lane 4: HELA Cell Lysate  
Lane 5: MM231 Cell Lysate  
Lane 6: SW620 Cell Lysate

## 42 Publications Citing This Product

1. PubMed ID: 33289736, Liu S, Sun Y, Zhao R, Wang Y, Zhang W, Pang W. Isoleucine increases muscle mass through promoting myogenesis and intramyocellular fat deposition. *Food Funct.* 2021 Jan 7;12(1):144-153. doi: 10.1039/d0fo02156c. Epub 2020 Dec 8. PMID:33289736.
2. PubMed ID: 33066831, Nan W, Li G, Si H, Lou Y, Wang D, Guo R, Zhang H. All-trans-retinoic acid inhibits mink hair follicle growth via inhibiting proliferation and inducing apoptosis of dermal papilla cells through TGF-beta2/Smad2/3 pathway. *Acta Histochem.* 2020 Oct;122(7):151603. doi: 10.1007/s00403-020-02156-6. PMID:33066831.
3. PubMed ID: 31974617, Wang S, Zhang C, Zhang X. Downregulation of long non-coding RNA ANRIL promotes proliferation and migration in hypoxic human pulmonary artery smooth muscle cells. *Mol Med Rep.* 2020 Feb;21(2):589-596. doi:10.3892/mmr.2019.10887. Epub 2019 Dec 17. PMID:31974617; PMC

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Anti-Cyclin D1/CCND1 Antibody

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