

## Anti-Cyclin D1/CCND1 Antibody

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. Briskin 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

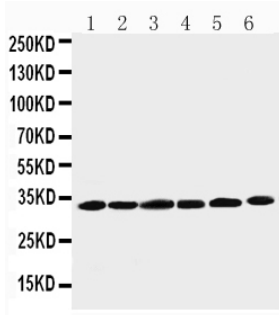
Product Name	Anti-Cyclin D1/CCND1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cyclin D1/CCND1 Antibody catalog # PA1245-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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.
Predicted Reactive Species	Hamster
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

## Anti-Cyclin D1/CCND1 Antibody (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: 10.1016/j.acthis.2020.151603.
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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