

Anti-Cyclin D1/CCND1 Antibody Picoband™

Catalog Number: PB9370

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 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.

Overview

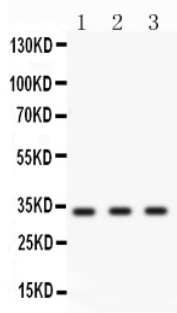
Product Name	Anti-Cyclin D1/CCND1 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Cyclin D1/CCND1 Antibody Picoband™ catalog # PB9370. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 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	P24385

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Cyclin D1, different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid.
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human

Anti-Cyclin D1/CCND1 Antibody Picoband™ (PB9370) Images



Anti-Cyclin D1 Picoband antibody, PB9370, Western blotting
All lanes: Anti Cyclin D1 (PB9370) 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

25 Publications Citing This Product

1. PubMed ID: 28944904, Triptolide inhibits proliferation, differentiation and induces apoptosis of osteoblastic MC3T3-E1 cells
2. PubMed ID: 27602489, Piwil2 is reactivated by HPV oncoproteins and initiates cell reprogramming via epigenetic regulation during cervical cancer tumorigenesis
3. PubMed ID: 24788349, Zhang H, Zhao B, Huang C, Meng Xm, Bian Eb, Li J. Plos One. 2014 May 2;9(5):E95520. Doi: 10.1371/Journal.Pone.0095520. Ecollection 2014. Melittin Restores Pten Expression By Down-Regulating Hdac2 In Human Hepatocellular Carcinoma Hepg2 Cells.

Visit bosterbio.com/anti-cyclin-d1-picoband-trade-antibody-pb9370-boster.html to see all 25 publications.

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