

## Anti-CDK4 Antibody (Monoclonal, DCS-31)

Catalog Number: MA1020

### About CDK4

Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. Human cell division is regulated primarily at the G1-to-S or the G2-to-M boundaries within the cell cycle. The complexes formed by CDK4 and the D-type cyclins are involved in the control of cell proliferation during the G1 phase. CDK4 is inhibited by p16, also known as cyclin-dependent kinase inhibitor-2. CDK4 is mapped to 12q14. CDK4 expression and activity are required for cytokine responsiveness in T cells.

### Overview

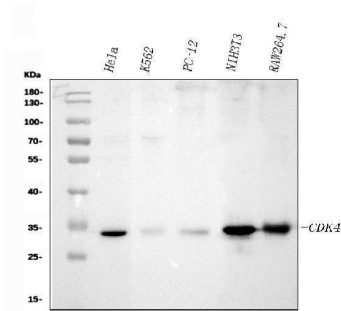
Product Name	Anti-CDK4 Antibody (Monoclonal, DCS-31)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CDK4 Antibody (Monoclonal, DCS-31) catalog # MA1020. Tested in ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ICC, WB
Clonality	Monoclonal DCS-31
Formulation	Mouse IgG in stabilizing components, 1.2% sodium acetate and 0.01mg 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	Mouse
Uniprot ID	P11802

### Technical Details

Immunogen	Recombinant human Cdk4 protein.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG2a
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Immunocytochemistry , 1ug/ml, Human, mouse, rat, -

Western blot, 0.5-1ug/ml, Human, mouse, rat

## Anti-CDK4 Antibody (Monoclonal, DCS-31) (MA1020) Images



Western blot analysis of CDK4 using anti-CDK4 antibody (MA1020). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: rat PC-12 whole cell lysates, Lane 4: mouse NIH/3T3 whole cell lysates, Lane 5: mouse RAW264.7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-CDK4 antigen affinity purified monoclonal antibody (Catalog # MA1020) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for CDK4 at approximately 34 kDa. The expected band size for CDK4 is at 34 kDa.

## 12 Publications Citing This Product

1. PubMed ID: -, Lu Kong, Yongya Wu, Wangcheng Hu, Lin Liu, Yuying Xue, Geyu Liang, Mechanisms underlying reproductive toxicity induced by nickel nanoparticles identified by comprehensive gene expression analysis in GC-1 spg cells, *Environmental Pollution*, 2021, 116556, ISSN 0269-7
2. PubMed ID: 25734831, Ren J, Huang Q, Xu Y, Yang M, Yang J, Hu K. *Anticancer Drugs*. 2015 Jul;26(6):599-611. Doi: 10.1097/Cad.0000000000000224. Isoflavone Lupiwighteone Induces Cytotoxic, Apoptotic, And Antiangiogenic Activities In Du-145 Prostate Cancer Cells.
3. PubMed ID: 20025889, Han W, Liu Gn. *Life Sci*. 2010 Feb 13;86(7-8):234-43. Doi: 10.1016/J.Lfs.2009.12.005. Epub 2009 Dec 16. Egr-1 Decoy Odns Inhibit Vascular Smooth Muscle Cell Proliferation And Neointimal Hyperplasia Of Balloon-Injured Arteries In Rat.

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