

Anti-Cyclin-dependent kinase 2 cdk2 Antibody

Catalog Number: A00166

About CDK2

Anti cdk2 antibody recognizes a protein encoded by a gene member of the Ser/Thr protein kinase family. This protein kinase is highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported.

Overview

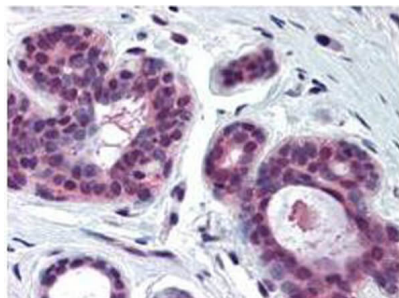
Product Name	Anti-Cyclin-dependent kinase 2 cdk2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cyclin-dependent kinase 2 cdk2 Antibody (Catalog # A00166). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IP, IF, IHC, WB
Clonality	Polyclonal
Formulation	0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P24941

Technical Details

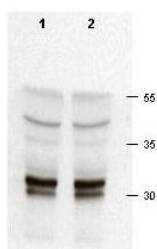
Immunogen	Anti-cdk2 antibody was prepared from whole rabbit serum by repeated immunizations with a synthetic peptide corresponding to the C-terminus of the human cdk-2 protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Predicted Reactive Species	Canine, Monkey
Cross Reactivity	No cross reactivity with other proteins.
Isotype	Antiserum
Form	Liquid (sterile filtered)

Concentration	75 mg/mL by Refractometry
Purification	Anti-cdk2 antibody was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 33 kDa cdk2 protein from human, rat and mouse tissue. No reaction was observed against other related cyclin dependent kinases. Cross-reactivity with cdk2 from other species may also occur.
Suggested Dilutions	ELISA: 1:1,000 - 1:5,000 IHC: 1:200 - 1:1,000 IF Microscopy: User optimized IP: 1:100 WB: 1:200 - 1:1,000 Anti-cdk2 antibody has been tested in western blot and immunohistochemistry and is suitable for IF and other antibody based assays. Multiple isoforms as well as phosphorylated forms of cdk-2 may be detected by this antibody. Use paraffin embedded tissues for immunohistochemistry. Optimal titers for other applications should be determined by the researcher.

Anti-Cyclin-dependent kinase 2 cdk2 Antibody (A00166) Images



Immunohistochemistry of Anti-CDK2 antibody. Tissue: human skin formalin fixed and paraffin embedded. No pre-treatment of sample was required. Primary Antibody: Anti-CDK2 was diluted 1:500. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.



Rabbit anti-cdk2 was used at a 1:200 dilution to detect cdk-2 in asynchronous HeLa cell lysates (run in duplicate). Approximately 50 µg of lysate was separated on a 15% SDS-PAGE gel. Cdk-2 is indicated by an arrowhead as a 32-33 kDa band. Note that multiple isoforms as well as phosphorylated forms of cdk-2 may be detected by this antibody. Primary antibody was reacted at room temperature for 1 h. After subsequent washing, a 1:5,000 dilution of HRP conjugated Gt-a-Rabbit IgG (611-103-122) preceded color development.

5 Publications Citing This Product

1. PubMed ID: 27432230, Platycodin D, a metabolite of Platycodin grandiflorum, inhibits highly metastatic MDA-MB-231 breast cancer growth in vitro and in vivo by targeting the MDM2
2. PubMed ID: 30340635, IL-2R α up-regulation is mediated by latent membrane protein 1 and promotes lymphomagenesis and chemotherapy resistance in natural killer/T-cell
3. PubMed ID: 27065079, TALENs-directed knockout of the full-length transcription factor Nrf1 that represses malignant behaviour of human hepatocellular carcinoma (HepG2) cells

Visit bosterbio.com/anti-cdk2-antibody-a00166-boster.html to see all 5 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Cyclin-dependent kinase 2 cdk2 Antibody

For Research Use Only. Not for use in diagnostic procedures.