

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

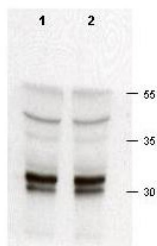
Product Name	Anti-Cyclin-dependent kinase 2 cdk2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cyclin-dependent kinase 2 cdk2 Antibody (Catalog # A00166). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	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

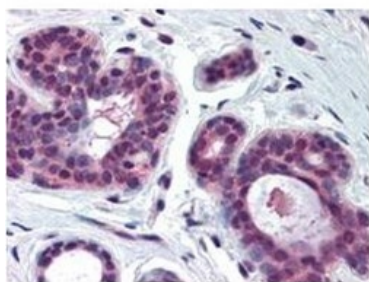
Immunogen	Anti-cdk2 antibody was prepared from whole rabbit serum by repeated immunizations with a synthetic peptide corresponding to the C-terminus of the human cdk-2 protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Predicted Reactive Species	Canine, Monkey
Cross Reactivity	No cross reactivity 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	<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>ELISA: 1:1,000 - 1:5,000</p> <p>IHC: 1:200 - 1:1,000</p> <p>IF Microscopy: User optimized</p> <p>IP: 1:100</p> <p>WB: 1:200 - 1:1,000</p>

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



Western blot analysis of cdk2 expression in HELA whole cell lysates (run in duplicate). cdk2 at 32-33KD was detected using rabbit anti-cdk2 Antigen Affinity purified polyclonal antibody (Catalog # A00166) at 1:200. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



cdk2 was detected in paraffin-embedded sections of human skin tissues using rabbit anti-cdk2 Antigen Affinity purified polyclonal antibody (Catalog # A00166) at 1:500. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

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 %u2026
2. PubMed ID: 30340635, IL-2R%u03B1 up-regulation is mediated by latent membrane protein 1 and promotes lymphomagenesis and chemotherapy resistance in natural killer/T-cell %u2026
3. PubMed ID: 27065079, TALENs-directed?knockout?of the?full-length?transcription?factor?Nrf1? that?represses?malignantbehaviour?of?human?hepatocellular?carcinoma?(HepG2)?cells

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

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