

Anti-Cyclin-dependent kinase 2 Cdk2 Antibody

Catalog Number: PA1547

About CDK2

CDK2, Cyclin-Dependent Kinase2, is also known as P33. The CDK2 protein was highly homologous to p34 (CDC2) kinase and more significantly homologous to *Xenopus* Eg1 kinase, suggesting that CDK2 is the human homolog of Eg1. The CDK2 gene is mapped to 12q13, the same region to which the CDK4 gene maps. Human cyclin A binds independently to 2 kinases, p34 (cdc2) or p33. In adenovirus-transformed cells, the viral E1A oncoprotein seems to associate with p33/cyclin A but not with p34 (cdc2)/cyclin A. The gene for p33 shares 65% sequence identity with p34 (cdc2). P33 (cdk2) plays a unique role in cell cycle regulation of vertebrate cells.

Overview

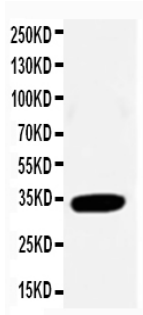
Product Name	Anti-Cyclin-dependent kinase 2 Cdk2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cyclin-dependent kinase 2 Cdk2 Antibody catalog # PA1547. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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	P24941

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Cdk2, identical to the related rat and mouse sequences.
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, Mouse, Rat</p>

Anti-Cyclin-dependent kinase 2 Cdk2 Antibody (PA1547) Images



Anti-Cdk2 antibody, PA1547, Western blotting
All lanes: Anti Cdk2 (PA1547) at 0.5ug/ml
WB: JURKAT Whole Cell Lysate at 40ug
Predicted bind size: 34KD
Observed bind size: 34KD

15 Publications Citing This Product

1. PubMed ID: 10.1016/j.jgr.2021.06.002, The anti-tumor efficacy of 20(S)-protopanaxadiol, an active metabolite of ginseng, according to fasting on hepatocellular carcinoma
2. PubMed ID: -, Wenzhen Li,Yifan Wang,Xinbo Zhou,Xiaohong Pan,Junhong Lü,Hongliu Sun,Zeping Xie,Shayan Chen,Xue Gao,The anti-tumor efficacy of 20(S)-protopanaxadiol, an active metabolite of ginseng, according to fasting on hepatocellular carcinoma,Journal of Ginseng Research,2021,,ISSN 1226-8453, <https://doi.org/10.1016/j.jgr.2021.06.002>.
3. 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

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