BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Cdk6 Antibody Picoband®

Catalog Number: PB9995

About CDK6

Cell division protein kinase 6, also called Plstire, is an enzyme that in humans is encoded by the CDK6 gene. The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. Radiation hybrid analysis and inclusion within a mapped clone place the CDK6 gene at 7q21. Serine/threonine-protein kinase involved in the control of the cell cycle and differentiation and promotes G1/S transition. This gene also involved in initiation and maintenance of cell cycle exit during cell differentiation. It prevents cell proliferation and regulates negatively cell differentiation, but is required for the proliferation of specific cell types. In addition, CDK6 plays a role in promoting the proliferation of beta-cells in pancreatic islets of Langerhans.

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.

Overview

Product Name	Anti-Cdk6 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-Cdk6 Antibody Picoband® catalog # PB9995. Tested in IHC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	Q00534

BOSTER
antibody and ELISA experts

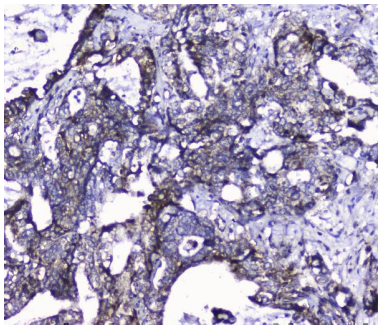
BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Technical Details

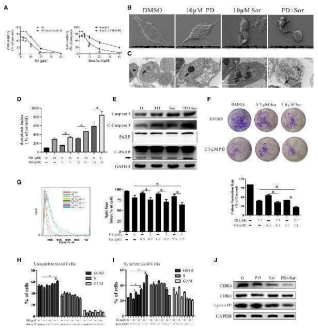
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Cdk6, identical to the related mouse sequence.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Western blot, 0.1-0.5ug/ml, Human, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

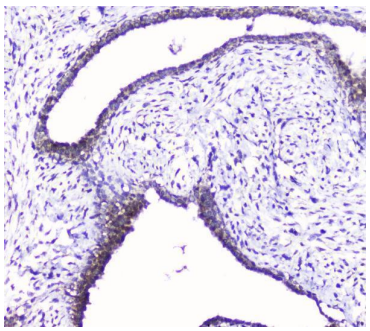
Anti-Cdk6 Antibody Picoband® (PB9995) Images



IHC analysis of Cdk6 using anti-Cdk6 antibody (PB9995). Cdk6 was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Cdk6 Antibody (PB9995) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



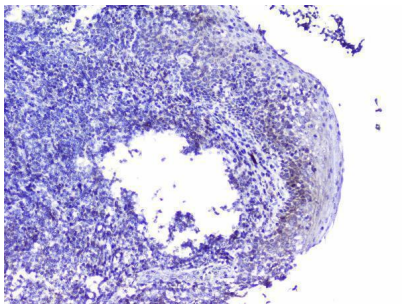
PD promotes the anti-tumor effects of sorafenib in PC3 cells. (A) . The effects of PD, sorafenib and PD plus sorafenib on cell viability. (B, C) . The changes in the cell membrane and nucleus after treatment with PD alone, sorafenib (Sor) alone or PD plus sorafenib. (D) . The induction of apoptosis by PD, Sor and PD + Sor. (E) . The protein expression levels of Caspase 3, C-Caspase 3, PARP and C-PARP were examined after cells were treated with 10 uM PD alone, 10 uM sorafenib alone or PD plus sorafenib for 6 h. (F) . The ability of cells to achieve colony growth was assessed after treatment with PD alone, sorafenib alone or PD plus sorafenib for 10 days. (G) . The proliferation of cells was monitored using the CFDA SE assay after treatment with PD alone, sorafenib alone or PD plus sorafenib for 5 days. (H, I) . The cell cycle distribution of PC3 cells following treatment with PD alone, sorafenib alone or PD plus sorafenib for 24 h after pre-treatment with (H) or without (I) 2 mM thymidine. (J) . Changes in the protein expression levels of CDK4, CDK6 and cyclin D1 after treatment with 5 uM PD alone, 2.5 uM sorafenib alone or PD plus sorafenib for 24 h. * p < 0.05.Index in PubMed under a CC BY license. PMID: 34026624



IHC analysis of Cdk6 using anti-Cdk6 antibody (PB9995). Cdk6 was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Cdk6 Antibody (PB9995) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

IHC analysis of Cdk6 using anti-Cdk6 antibody (PB9995). Cdk6 was detected in paraffin-embedded section of human tonsil tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution)

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com



for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Cdk6 Antibody (PB9995) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

4 Publications Citing This Product

1. PubMed ID: 34144025, Sun D,Zhao T,Long K,Wu M,Zhang Z.Triclosan down-regulates fatty acid synthase through microRNAs in HepG2 cells.Eur J Pharmacol .2021 Jun 15:174261.doi:10.1016/j.ejphar.2021.174261.Epub ahead of print.PMID:34144025.

2. PubMed ID: 25431082, Zhou R, Lu Z, Liu K, Guo J, Liu J, Zhou Y, Yang J, Mi M, Xu H. Curr Cancer Drug Targets. 2015;14(9):860-71. Platycodin D Induces Tumor Growth Arrest By Activating Foxo3A Expression In Prostate Cancer In Vitro And In Vivo.

3. PubMed ID: 28081541, Li P, Chen H, Chen S, Mo X, Li T, Xiao B, Yu R, Guo J. Br J Cancer. 2017 Feb 28;116(5):626-633. doi: 10.1038/bjc.2016.451. Epub 2017 Jan 12 Circular RNA 0000096 affects cell growth and migration in gastric cancer

Visit bosterbio.com/anti-cdk6-picoband-trade-antibody-pb9995-boster.html to see all 4 publications.

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