BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PCTAIRE1/CDK16 Antibody Picoband®

Catalog Number: A06102-1

About CDK16

Cyclin-dependent kinase 16 is a protein that in humans is encoded by the CDK16 gene. This gene is mapped to Xp11.3. The protein encoded by this gene belongs to the cdc2/cdkx subfamily of the ser/thr family of protein kinases. It may play a role in signal transduction cascades in terminally differentiated cells; in exocytosis; and in transport of secretory cargo from the endoplasmic reticulum. This gene is thought to escape X inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms.

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Overview

Product Name	Anti-PCTAIRE1/CDK16 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PCTAIRE1/CDK16 Antibody Picoband® catalog # A06102-1. Tested in ELISA, ICC/IF, IHC, WB applications. This antibody reacts with Human, Mouse, 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	ELISA, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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	Q00536

Technical Details

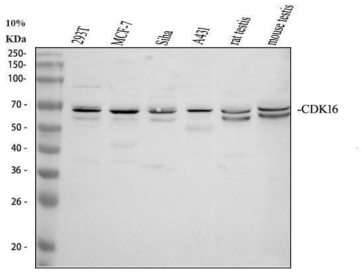
Immunogen	E.coli-derived human PCTAIRE1/CDK16 recombinant protein (Position: N392-H443).
Recommended Detection Systems	Boster recommends ECL Plus Western Blotting Substrate (Catalog # AR1196-200) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.

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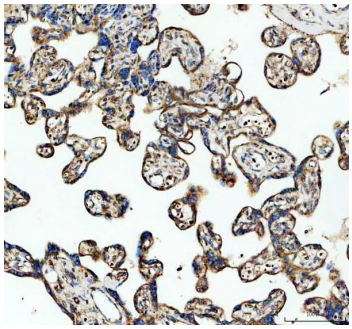
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human ELISA, 0.1-0.5ug/ml, -

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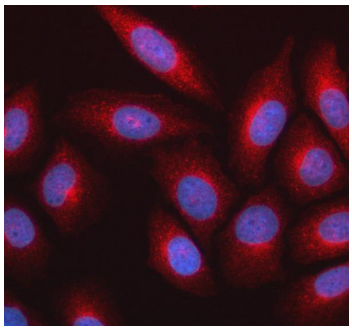
Anti-PCTAIRE1/CDK16 Antibody Picoband® (A06102-1) Images



Western blot analysis of PCTAIRE1/CDK16 using anti-PCTAIRE1/CDK16 antibody (A06102-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human SiHa whole cell lysates, Lane 4: human A431 whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: mouse testis tissue lysates.After electrophoresis, proteins were traPCTAIRE1/CDK16erred 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 rabbit anti-PCTAIRE1/CDK16 antigen affinity purified polyclonal antibody (A06102-1) 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-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for PCTAIRE1/CDK16 at approximately 65 kDa. The expected band size for PCTAIRE1/CDK16 is at 56 kDa.



IHC analysis of PCTAIRE1/CDK16 using anti-PCTAIRE1/CDK16 antibody (A06102-1). PCTAIRE1/CDK16 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PCTAIRE1/CDK16 Antibody (A06102-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of PCTAIRE1/CDK16 using anti-PCTAIRE1/CDK16 antibody (A06102-1). PCTAIRE1/CDK16 was detected in an immunocytochemical section of SiHa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-PCTAIRE1/CDK16 Antibody (A06102-1) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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