

Anti-PKC Alpha/PRKCA Antibody Picoband®

Catalog Number: A00743-1

About PRKCA

Protein kinase C (PKC) is the major phorbol ester receptor. Activation of PKC by calcium ions and the second messenger diacylglycerol is thought to play a central role in the induction of cellular responses to a variety of ligand-receptor systems and in the regulation of cellular responsiveness to external stimuli. Three of these, termed alpha, beta and gamma, are highly homologous. PRKCA1 is mapped to 17q22-q23.2. PRKCA1 regulates cardiac contractility and propensity toward heart failure.

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Overview

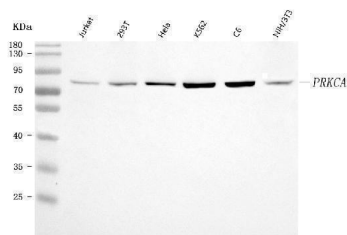
Product Name	Anti-PKC Alpha/PRKCA Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PKC Alpha/PRKCA Antibody Picoband® catalog # A00743-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is 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, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P17252

Technical Details

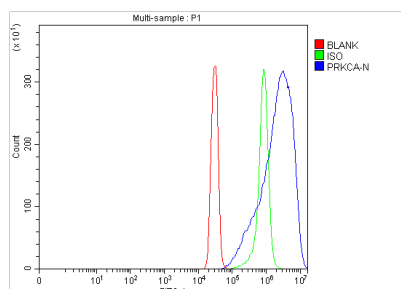
Immunogen	E.coli-derived human PKC Alpha/PRKCA recombinant protein (Position: Q142-V672).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10⁶ cells, Human ELISA, 0.1-0.5 ug/ml, -</p> <p>Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.</p>

Anti-PKC Alpha/PRKCA Antibody Picoband® (A00743-1) Images



Western blot analysis of PKC Alpha/PRKCA using anti-PKC Alpha/PRKCA antibody (A00743-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human 293T cell lysates, Lane 3: human HeLa whole cell lysates, Lane 4: human K562 whole cell lysates, Lane 5: rat C6 whole cell lysates, Lane 6: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred 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-PKC Alpha/PRKCA antigen affinity purified polyclonal antibody (Catalog # A00743-1) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PKC Alpha/PRKCA at approximately 80 kDa. The expected band size for PKC Alpha/PRKCA is at 77 kDa.



Flow Cytometry analysis of SiHa cells using anti-PKC Alpha/PRKCA antibody (A00743-1). Overlay histogram showing SiHa cells stained with A00743-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PKC Alpha/PRKCA Antibody (A00743-1, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Anti-PKC Alpha/PRKCA Antibody

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