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

Anti-PKC iota/PRKCI Antibody Picoband®

Catalog Number: PB9321

About PRKCI

Protein kinase C iota type, also called PKCI, is an enzyme that in humans is encoded by the PRKCI gene. This gene encodes a member of the protein kinase C (PKC) family of serine/threonine protein kinases. This protein kinase is calcium-independent and phospholipid-dependent. It is not activated by phorbolesters or diacylglycerol. This kinase can be recruited to vesicle tubular clusters (VTCs) by direct interaction with the small GTPase RAB2, where this kinase phosphorylates glyceraldehyde-3-phosphate dehydrogenase (GAPD/GAPDH) and plays a role in microtubule dynamics in the early secretory pathway. PRKCI is found to be necessary for BCL-ABL-mediated resistance to drug-induced apoptosis and therefore protects leukemia cells against drug-induced apoptosis. PRKCI is also a hedgehog target gene that forms a positive feedback loop with GLI and exists at increased levels in basal cell carcinomas.

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Overview

Product Name	Anti-PKC iota/PRKCI Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PKC iota/PRKCI Antibody Picoband® catalog # PB9321. Tested in 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	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	P41743

BOSTER
antibody and ELISA experts

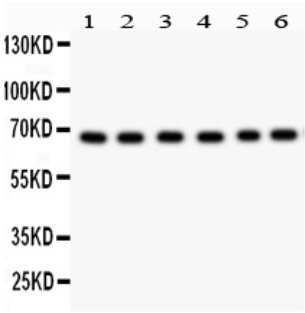
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Technical Details

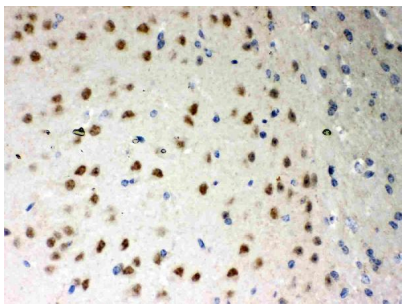
Immunogen	E.coli-derived human PKC iota recombinant protein (Position: D21-Q214). Human PKC iota shares 96% and 97% amino acid (aa) sequence identity with mouse and rat PKC iota, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) 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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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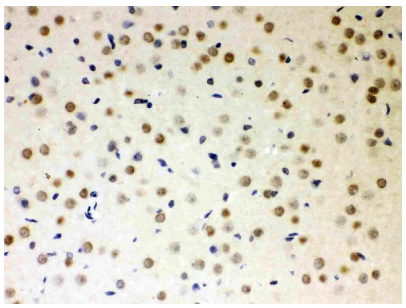
Anti-PKC iota/PRKCI Antibody Picoband® (PB9321) Images



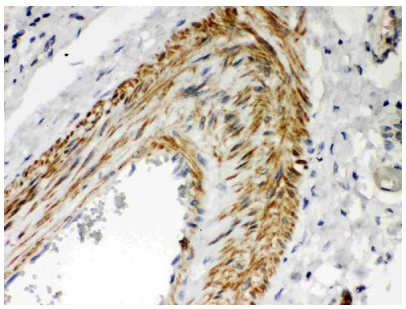
Anti-PKC iota Picoband antibody, PB9321, Western blottingAll lanes: Anti PKC iota (PB9321) at 0.5ug/mlLane 1: SHG Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: U87 Whole Cell Lysate at 40ugLane 4: 293T Whole Cell Lysate at 40ugLane 5: HELA Whole Cell Lysate at 40ugLane 6: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 68KDObserved bind size: 68KD



Anti-PKC iota Picoband antibody, PB9321,IHC(P)IHC(P): Mouse Brain Tissue



Anti-PKC iota Picoband antibody, PB9321,IHC(P)IHC(P): Rat Brain Tissue



Anti-PKC iota Picoband antibody, PB9321,IHC(P)IHC(P): Human Lung Cancer Tissue

Anti-PKC iota/PRKCI Antibody

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