

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 phorbol esters 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.

Overview

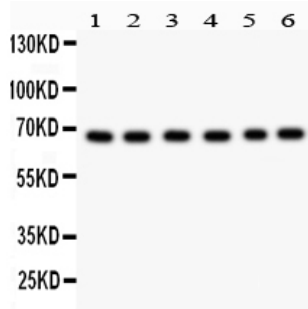
Product Name	Anti-PKC iota/PRKCI Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PKC iota/PRKCI Antibody Picoband® catalog # PB9321. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that 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 Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *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

Technical Details

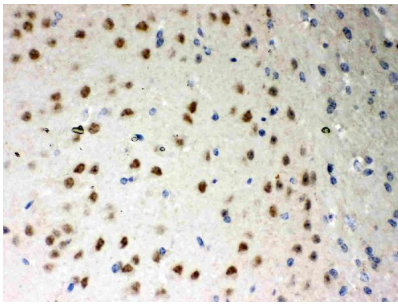
Immunogen	E.coli-derived human PKC iota recombinant protein (Position: D21-Q214). Human PKC iota shares 96% and 97% amino acid (aa) sequence identity with mouse and rat PKC iota, respectively.
-----------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

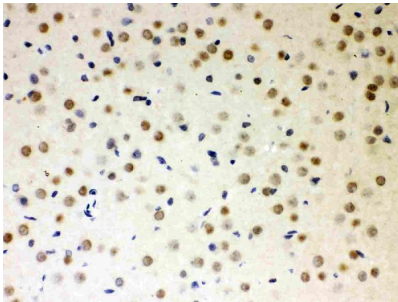
Anti-PKC iota/PRKCI Antibody Picoband® (PB9321) Images



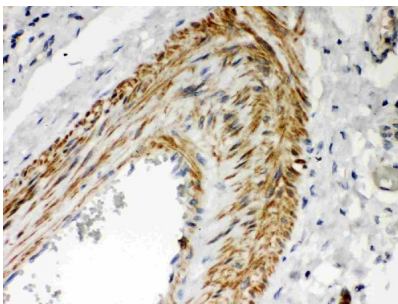
Anti-PKC iota Picoband antibody, PB9321, Western blotting All lanes: Anti PKC iota (PB9321) at 0.5ug/ml Lane 1: SHG Whole Cell Lysate at 40ug Lane 2: A549 Whole Cell Lysate at 40ug Lane 3: U87 Whole Cell Lysate at 40ug Lane 4: 293T Whole Cell Lysate at 40ug Lane 5: HELA Whole Cell Lysate at 40ug Lane 6: JURKAT Whole Cell Lysate at 40ug Predicted bind size: 68KD Observed 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

Submit a product review to [Biocompare.com](https://www.biocompare.com)

Submit a review of this product to [Biocompare.com](https://www.biocompare.com) to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



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