

Anti-PKC delta/PRKCD Antibody

Catalog Number: RP1058

About PRKCD

Protein kinase C delta type, also called PKCD, is an enzyme that in humans is encoded by the PRKCD gene. The PRKCD gene encodes a member of the protein kinase C family, members of which are critical for regulation of cell survival, proliferation, and apoptosis. This gene is mapped to 3p21.1. Studies both in human and mice demonstrate that this kinase is involved in B cell signaling and in the regulation of growth, apoptosis, and differentiation of a variety of cell types. PRKCD is also regulated by phosphorylation on various tyrosine residues including Y311 (by SRC). It has been showed that PRKCD phosphorylates NLRC4 and that this phosphorylation is critical for inflammasome assembly. What's more, it is also a part of a noncanonical WNT signaling cascade.

Overview

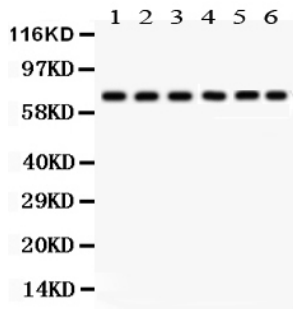
Product Name	Anti-PKC delta/PRKCD Antibody
Reactive Species	Human
Description	Boster Bio Anti-PKC delta/PRKCD Antibody catalog # RP1058. Tested in IF, ICC, WB applications. This antibody reacts with Human.
Application	IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	Q05655

Technical Details

Immunogen	E.coli-derived human PKC delta recombinant protein (Position: M1-E160). Human PKC delta shares 95% and 93% amino acid (aa) sequence identity with mouse and rat PKC delta, respectively.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for ICC.
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human Immunocytochemistry/Immunofluorescence, 2ug/ml, Human

Anti-PKC delta/PRKCD Antibody (RP1058) Images



Anti-PKC delta antibody, RP1058, Western blotting
All lanes: Anti PKC delta (RP1058) at 0.5ug/ml
Lane 1: HELA Whole Cell Lysate at 40ug
Lane 2: SMMC Whole Cell Lysate at 40ug
Lane 3: U87 Whole Cell Lysate at 40ug
Lane 4: JURKAT Whole Cell Lysate at 40ug
Lane 5: CEM Whole Cell Lysate at 40ug
Lane 6: A549 Whole Cell Lysate at 40ug
Predicted bind size: 77KD
Observed bind size: 77KD

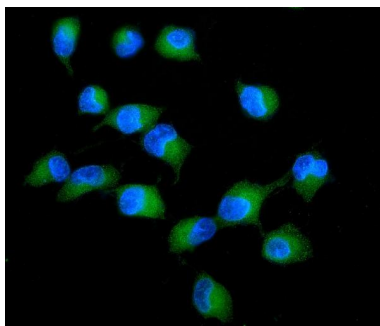


Figure 2. IF analysis of PKC delta using anti-PKC delta antibody (RP1058).
PKC delta was detected in immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-PKC delta Antibody (RP1058) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 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.

1 Publications Citing This Product

1. PubMed ID: 26937173, 5-(Bis(3-(2-hydroxyethyl)-1H-indol-2-yl)methyl)-2-hydroxybenzoic acid (BHIMHA): showing a strategy of designing drug to block lung metastasis of tumors

Visit bosterbio.com/anti-pkc-delta-antibody-rp1058-boster.html to see all 1 publications.

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