Product datasheet

Anti-PKC Beta/PRKCB Antibody

Catalog Number: *A01940*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-PKC Beta/PRKCB Antibody
Gene Name	PRKCB
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PKC beta 1/PRKCB, identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	77 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Protein kinase C beta type is an enzyme that in humans is encoded by the PRKCB gene. It is a member of the protein kinase C (PKC) gene family. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. This protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. It has been found that PRKCB activated by oxidative conditions in the cell, induces phosphorylation of p66(SHC) and triggers

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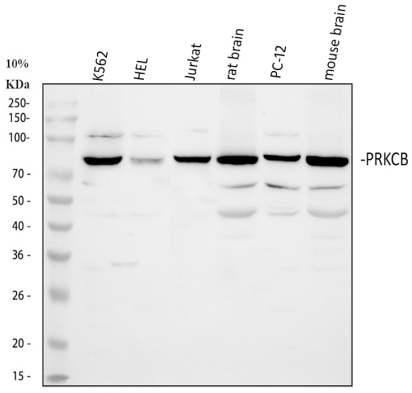
mitochondrial accumulation of the protein after it is recognized by the prolyl isomerase PIN1.

Reference

Anti-PKC Beta/PRKCB Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of PKC Beta/PRKCB using anti-PKC Beta/PRKCB antibody (A01940). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: human HEL whole cell lysates,
Lane 3: human Jurkat whole cell lysates,
Lane 4: rat brain tissue lysates,
Lane 5: rat PC-12 whole cell lysates,
Lane 6: mouse brain tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PKC Beta/PRKCB antigen affinity purified polyclonal antibody (A01940) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PKC Beta/PRKCB at approximately 77 kDa. The expected band size for PKC Beta/PRKCB is at 77 kDa.

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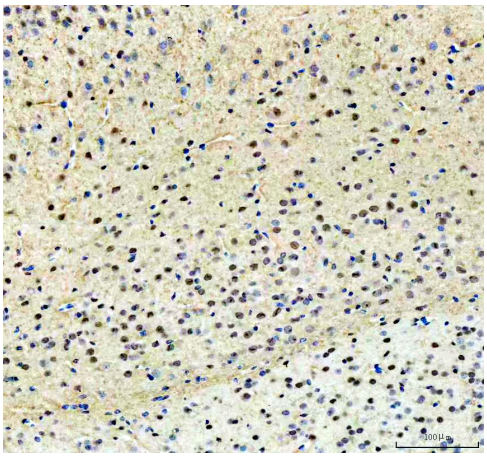
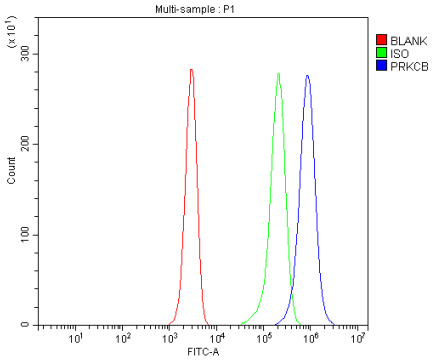


IHC analysis of PKC Beta/PRKCB using anti-PKC Beta/PRKCB antibody (A01940) .
PKC Beta/PRKCB was detected in a paraffin-embedded section of mouse brain tissue. The tissue section was incubated with rabbit anti-PKC Beta/PRKCB Antibody (A01940) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of Jurkat cells using anti-PKC Beta/PRKCB antibody (A01940).
Overlay histogram showing Jurkat cells stained with A01940 (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 Beta/PRKCB Antibody (A01940) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.