Datasheet for ABIN6146200
anti-PKC beta antibody (AA 220-340)
4 Images


Overview

| Quantity: | $100 \mu \mathrm{~L}$ |
| :--- | :--- |
| Target: | PKC beta (PRKCB) |
| Binding Specificity: | AA 220-340 |
| Reactivity: | Human |
| Host: | Pobbit |
| Clonality: | This PKC beta antibody is un-conjugated |
| Conjugate: | Western Blotting (WB), Immunofluorescence (IF) |
| Application: |  |

Product Details

| Immunogen: | Recombinant fusion protein containing a sequence corresponding to amino acids 220-340 of |
| :--- | :--- |
| human PRKCB (NP_002729.2). |  |
| Sequence: | NPEWNETFRF QLKESDKDRR LSVEIWDWDL TSRNDFMGSL SFGISELQKA SVDGWFKLLS <br> QEEGEYFNVP VPPEGSEANE ELRQKFERAK ISQGTKVPEE KTTNTVSKFD NNGNRDRMKL T |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Characteristics: |  |
| Target Details | PKC beta (PRKCB) |


| Alternative Name: | PRKCB (PRKCB Products) |
| :---: | :---: |
| Background: | Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. 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. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. 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. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms have been reported.,PRKCB,PKCbeta,PKCB,PRKCB1,PRKCB2,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Kinase,Phospholipase Signaling Pathway,Protein Kinase C Signaling Pathway,ErbBHER Signaling Pathway,MAPK-Erk Signaling Pathway,Cell Biology \& Developmental Biology,Apoptosis,Mitochondrial Control of Apoptosis,Inhibition of Apoptosis,TGF-b-Smad Signaling Pathway,Immunology \& Inflammation,B Cell Receptor Signaling Pathway,PRKCB |
| Molecular Weight: | $76 \mathrm{kDa} / 77 \mathrm{kDa}$ |
| Gene ID: | 5579 |
| UniProt: | P05771 |
| Pathways: | WNT Signaling, TCR Signaling, Thyroid Hormone Synthesis, Nuclear Hormone Receptor Binding , Chromatin Binding, Myometrial Relaxation and Contraction, VEGF Signaling, Unfolded Protein Response, BCR Signaling |
| Application Details |  |
| Application Notes: | WB,1:500-1:2000,IF,1:50-1:200 |
| Restrictions: | For Research Use only |
| Handling |  |
| Format: | Liquid |
| Buffer: | PBS with 0.02 \% sodium azide, 50 \% glycerol, pH 7.3. |
| Preservative: | Sodium azide |

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

| Storage: | $-20^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Storage Comment: | Store at $-20^{\circ} \mathrm{C}$. Avoid freeze / thaw cycles. |

Validation report \#104300 for Cleavage Under Targets and Release Using Nuclease (CUT\&RUN)


## Immunofluorescence

Image 1. Immunofluorescence analysis of C6 cells using PRKCB antibody (ABIN6128463, ABIN6146200, ABIN6146202 and ABIN6221544) at dilution of 1:100. Blue: DAPI for nuclear staining.


## Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PRKCB antibody (ABIN6128463, ABIN6146200, ABIN6146202 and ABIN6221544) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG $(H+L)(A B I N 1684268$ and ABIN3020597) at 1:10000 dilution.Lysates/proteins: $25 \mu \mathrm{~g}$ per lane.Blocking buffer: $3 \%$ nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 10s.

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## Immunofluorescence

Image 3. Immunofluorescence analysis of cells using PRKCB antibody (ABIN6128463, ABIN6146200, ABIN6146202 and ABIN6221544) at dilution of 1:100. Blue: DAPI for nuclear staining.

Please check the product details page for more images. Overall 4 images are available for ABIN6146200.

