

## **Product datasheet for TA302123**

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PKC beta 1 (PRKCB) Rabbit Polyclonal Antibody

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**Product Type:** Primary Antibodies

**Applications:** IHC, WB

**Product data:** 

Recommended Dilution: WB: 1:1000, IHC: 1:10~50

Reactivity: Human, Mouse, Rat, Monkey

**Host:** Rabbit

**Isotype:** lg

Clonality: Polyclonal

Immunogen: This PKC beta2 antibody is generated from rabbits immunized with a KLH conjugated

synthetic peptide between 642-673 amino acids from the C-terminal region of human PKC

beta2.

**Formulation:** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

**Concentration:** lot specific

**Purification:** This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by

dialysis against PBS.

**Conjugation:** Unconjugated

**Storage:** Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

Predicted Protein Size: 77011 Da

**Gene Name:** protein kinase C beta

Database Link: NP 002729

Entrez Gene 18751 MouseEntrez Gene 25023 RatEntrez Gene 701195 MonkeyEntrez Gene

5579 Human P05771



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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. PKC beta 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. Isoform 1 uses an alternate exon at the 3' end compared to isoform 2, which includes a part of the coding region. The resulting isoform 1 has a distinct and shorter C-terminus, as compared to isoform 2.

**Synonyms:** PKC-beta; PKCB; PRKCB1; PRKCB2

**Protein Families:** Druggable Genome, Protein Kinase

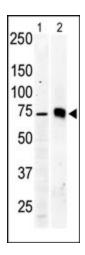
**Protein Pathways:** B cell receptor signaling pathway, Calcium signaling pathway, Chemokine signaling pathway,

ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Leukocyte transendothelial

migration, Long-term depression, Long-term potentiation, MAPK signaling pathway,

Melanogenesis, Natural killer cell mediated cytotoxicity, Non-small cell lung cancer, Pathways in cancer, Phosphatidylinositol signaling system, Tight junction, Vascular smooth muscle contraction, VEGF signaling pathway, Vibrio cholerae infection, Wnt signaling pathway

## **Product images:**



The anti-PKC beta2 Pab (Cat. #TA302123) is used in Western blot to detect PKC beta2 in Jurkat cell lysate (lane 1) and mouse brain tissue lysate (lane 2).





Formalin-fixed and paraffin-embedded human brain tissue reacted with PKC beta2 antibody (Cterm), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.