

# Recombinant Human PKC beta/PRKCB1 Kinase

Catalog No.: RP03372LQ Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 5579 P05771-1

Tags N-GST

Synonyms

PRKCB; PKCB; PRKCB1; PKCβ1; PKC-B; PKC-beta; Protein kinase C beta type

# **Product Information**

Source Purification

Baculovirus-Insect ≥ 85% as

Cells determined by SDSPAGE;≥ 85% as
determined by
HPLC.

Calculated MW Observed MW

103.4 kDa 85-110 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

## **Formulation**

Supplied as a 0.22  $\mu$ m filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 5% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

## Reconstitution

Please use running water to thaw it quickly.

## **Contact**

8	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

# **Background**

Protein kinase C beta type is an enzyme that in humans is encoded by the PRKCB gene. PRKCB1 has been shown to interact with RIPK4, beta adrenergic receptor kinase, PDLIM5 and GNB2L1. 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. This protein kinase is expressed solely in the brain and spinal cord and its localization is restricted to neurons. Knockout studies in mice also suggest that this kinase may be involved in neuropathic pain development. Defects in this protein have been associated with neurodegenerative disorder.

### **Basic Information**

#### Description

Recombinant Human PKC beta/PRKCB1 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Val671) of Human PRKCB (Accession #P05771-1) fused with a N-GST tag.

#### **Bio-Activity**

The activity of PKC $\beta$ 1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

## **Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### **Storage**

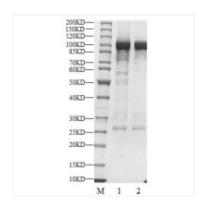
Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10  $\mu\text{L}$  are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

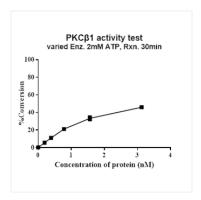
Avoid repeated freeze/thaw cycles.

# **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.



Recombinant Human PKC beta/PRKCB1 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



The activity of PKC $\beta$ 1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.