Recombinant Human PKC beta/PRKCB1 Kinase

Catalog No.: RP03372LQ

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Sequence Information

Species
Human

Gene ID
5579

Swiss Prot
P05771-1

Tags
N-GST

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

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW
103.4 kDa

Observed MW
85-110 kDa

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

Formulation
Supplied as a 0.22 μm 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.

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.

Activity
The activity of PKCβ1 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
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

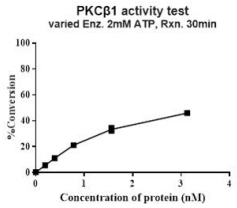
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

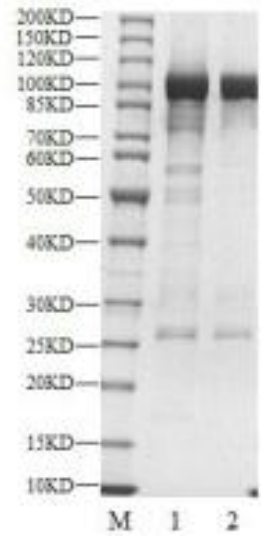
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of PKCβ1 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.



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