Recombinant Human PKAC beta/PRKACB Kinase

Catalog No.: RP03347LQ

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Sequence Information

Species
Human

Gene ID
5567

Swiss Prot
P22694

Tags
No tag

Synonyms
PRKACB; PKA C-beta; cAMP-dependent protein kinase catalytic subunit beta

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 80 % as determined by SDS-PAGE;≥ 80 % as determined by HPLC.

Calculated MW
40.4 kDa

Observed MW
30-40 kDa

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

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 150 mM NaCl, 20% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

cAMP-dependent protein kinase catalytic subunit beta is an enzyme that in humans is encoded by the PRKACB gene. cAMP exerts its effects by activating the protein kinase A (PKA), which transduces the signal through phosphorylation of different target proteins. The inactive holoenzyme of PKA is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits of PKA have been identified in humans. The protein encoded by this gene is a member of the serine/threonine protein kinase family and is a catalytic subunit of PKA. And PRKACB has been shown to interact with Ryanodine receptor 2 and Low affinity nerve growth factor receptor.

Basic Information

Description
Recombinant Human PKAC beta/PRKACB Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Gly2-Phe351) of Human PRKACB (Accession #P22694) fused with No tag.

Activity
The activity of PRKACB 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℃

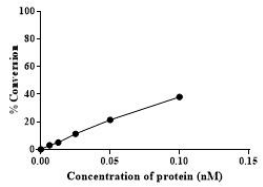
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

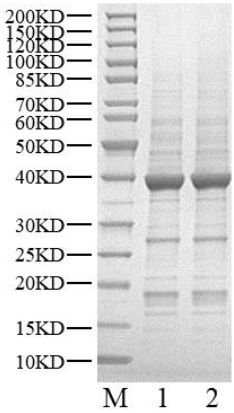
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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

Validation Data



The activity of PRKACB 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 PKAC beta/PRKACB Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.