

RP03445LQ

Leader in Biomolecular Solutions for Life Science



www.abclonal.com

Recombinant Human PIK4CB/PI4KB Kinase

Catalog No.: RP03445LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus- Insect Cells	5298	Q9UBF8

Tags

N-His-GST

Synonyms

PI4KB; PIK4CB; NPIK; PI4K92; PI4KIII;
PI4K-beta; PI4Kbeta; PtdIns 4-kinase
beta; Phosphatidylinositol 4-kinase
beta

Product Information

Source

Purification

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

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, 1 mM DTT. (pH 7.5). Contact
us for customized product form or
formulation.

Reconstitution

Please use running water to thaw it
quickly.

Contact



www.abclonal.com

Background

Phosphatidylinositol 4-kinase beta is an enzyme that in humans is encoded by the PI4KB gene. PI4KB is a soluble protein shuttling between the cytoplasm and the nucleus, and can be recruited to the membranes of the Golgi system via protein-protein interactions, e.g. with small GTP binding proteins Arf1 and Rab11, or a Golgi adaptor protein ACBD3. PI4KB can be phosphorylated by the protein kinase D, which promotes the interaction with 14-3-3 proteins and stabilization of the protein in its active conformation.

Basic Information

Description

Recombinant Human PIK4CB/PI4KB Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Gly2-Met816) of Human PI4KB (Accession #Q9UBF8) fused with a N-His-GST tag.

Bio-Activity

The activity of PI4KB 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.

Operational Notes

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

Storage

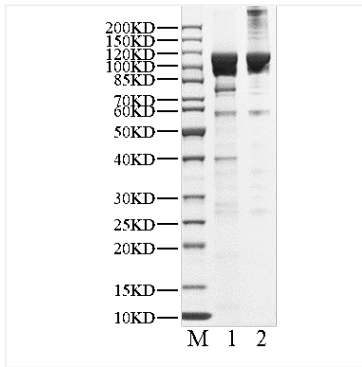
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

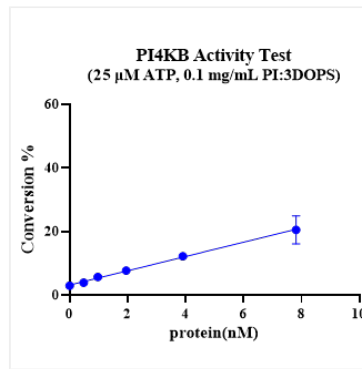
Avoid repeated freeze/thaw cycles.

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

Validation Data



Recombinant Human PIK4CB/PI4KB Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



The activity of PI4KB 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.