# Recombinant Human PIK4CB/PI4KB Kinase

## Catalog No.: RP03445LQ



## Sequence Information

**Species**
Human

**Gene ID**
5298

**Swiss Prot**
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**
Baculovirus-Insect Cells

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

**Calculated MW**
119.0 kDa

**Observed MW**
90-120 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, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

**Reconstitution**
Please use running water to thaw it quickly.

## 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.

**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**
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.

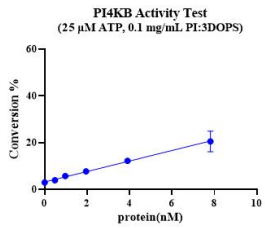
**Contact**

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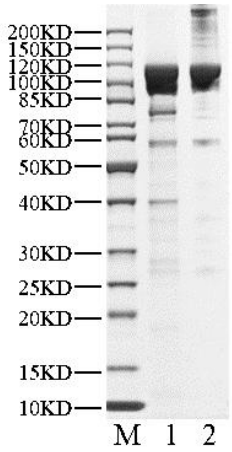


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## Validation Data




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.




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



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