Recombinant Human AKT3/PKB gamma Kinase

Catalog No.: RP03448LQ

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Sequence Information

Species
Human

Gene ID
10000

Swiss Prot
Q9Y243

Tags
N-GST

Synonyms
AKT3; PKBG; PKB gamma; Protein kinase Akt-3; Protein kinase B gamma; RAC-PK-gamma; STK-2; RAC-gamma serine/threonine-protein kinase

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
82.3 kDa

Observed MW
70-85 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, 500 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

RAC-gamma serine/threonine-protein kinase is an enzyme that in humans is encoded by the AKT3 gene. The protein encoded by this gene is a member of the AKT subfamily of serine/threonine protein kinases. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described. Mice lacking Akt3 have a normal glucose metabolism (no diabetes), have approximately normal body weight, but have a 25% reduction in brain mass.

Basic Information

Description
Recombinant Human AKT3/PKB gamma Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Glu479) of Human AKT3 (Accession #Q9Y243) fused with a N-GST tag.

Activity
The activity of AKT3 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℃

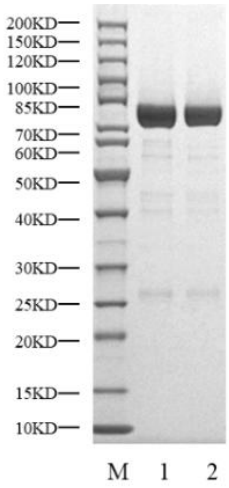
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

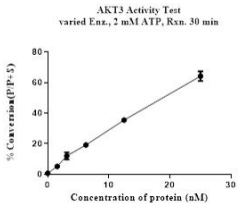
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Human AKT3/PKB gamma Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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