

Recombinant Human AKT2/PKB beta Kinase

Catalog No.: RP03397LQ

Sequence Information

Species **Gene ID**
Human 208

Swiss Prot **Tags**
P31751 N-GST

Synonyms

AKT2; Protein kinase B beta; PKB beta; Protein kinase Akt-2; RAC-PK-beta; RAC-beta serine /threonine-protein kinase

Product Information

Source **Purification**
Baculovirus- ≥ 90 % as
Insect Cells determined by
 SDS-PAGE; ≥ 90
 % as determined
 by HPLC.

Calculated MW **Observed MW**
82.3 kDa 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, 150 mM NaCl, 5% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Background

AKT2, also known as RAC-beta serine/threonine-protein kinase, is an enzyme that in humans is encoded by the AKT2 gene. This gene is a putative oncogene encoding a protein belonging to the AKT subfamily of serine /threonine kinases that contain SH2-like (Src homology 2-like) domains. The encoded protein is a general protein kinase capable of phosphorylating several known proteins. AKT2 has important roles in controlling glycogenesis, gluconeogenesis, and glucose transport as part of the insulin signal transduction pathway. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers.

Basic Information

Description

Recombinant Human AKT2/PKB beta Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Asn2-Glu481) of Human AKT2 (Accession #P31751) fused with a N-GST tag.

Activity

The activity of AKT2 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°C

Operational Notes

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

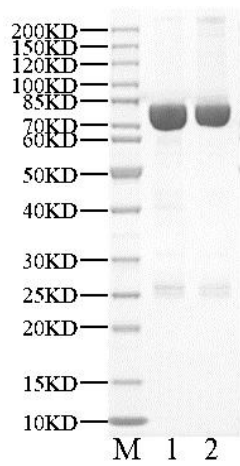
Contact

☎ | 400-999-6126

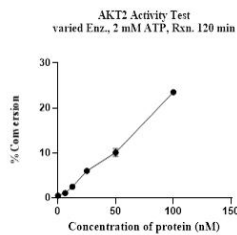
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Validation Data



Recombinant Human AKT2/PKB beta Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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