

# Recombinant Human AKT2/PKB beta Kinase

Catalog No.: RP03397LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	208	P31751

**Tags**  
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-Insect Cells	≥ 90 % as 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.

## Contact

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## 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.

### Bio-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.

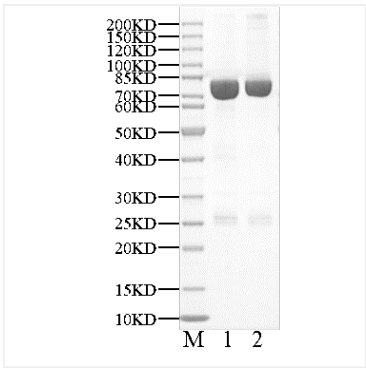
### Storage

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.

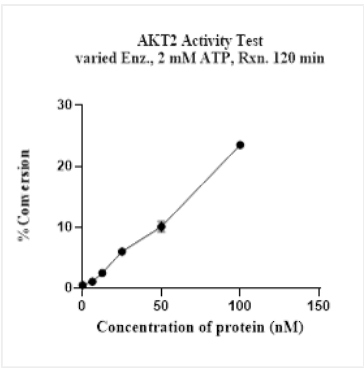
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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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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