

## Product datasheet

# AKT1 + PKN2 peptide substrate ab204873

### Description

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<b>Product name</b>	AKT1 + PKN2 peptide substrate
<b>Purity</b>	> 96 % HPLC.
<b>Animal free</b>	No
<b>Nature</b>	Synthetic
<b>Sequence</b>	KTFCGTPEYLAPEVRREPRILSEEEQEMFRDFDIADWC
<b>Additional sequence information</b>	The 39 amino acids of PDKtide peptide sequence is derived from two human proteins: residues 1-14 are based on AKT1 (307-320) and residues 16-39 are based on PKN2/PRK2 (961-984).
<b>Description</b>	AKT1 + PKN2 peptide

### Specifications

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Our **Abpromise guarantee** covers the use of **ab204873** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	HPLC Functional Studies
<b>Additional notes</b>	ab204873 (AKT1 + PKN2 peptide substrate) can be utilized as a substrate for the following active protein kinases:  <b>ab126914</b> (Active human CDC7 + DBF4 full length protein) <b>ab70320</b> (Active human CDK9+CyclinK full length protein) <b>ab60834</b> (Active human PDPK1 full length protein)

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.
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### General Info

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<b>Cellular localization</b>	AKT1: Cytoplasm. Nucleus. Cell membrane. Nucleus after activation by integrin-linked protein
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kinase 1 (ILK1). Nuclear translocation is enhanced by interaction with TCL1A. Phosphorylation on Tyr-176 by TNK2 results in its localization to the cell membrane where it is targeted for further phosphorylations on Thr-308 and Ser-473 leading to its activation and the activated form translocates to the nucleus. PKN2: Cytoplasm.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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