

## Product datasheet

# Recombinant human AKT2 protein ab60322

5 Images

### Description

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<b>Product name</b>	Recombinant human AKT2 protein
<b>Purity</b>	> 90 % SDS-PAGE. Purity: >90% as determined by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

### Specifications

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Our **Abpromise guarantee** covers the use of **ab60322** 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>	SDS-PAGE Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	<b>ab204851</b> (AKT peptide) can be utilized as a substrate for assessing kinase activity

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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### General Info

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<b>Function</b>	General protein kinase capable of phosphorylating several known proteins.
<b>Tissue specificity</b>	Expressed in all human cell types so far analyzed.

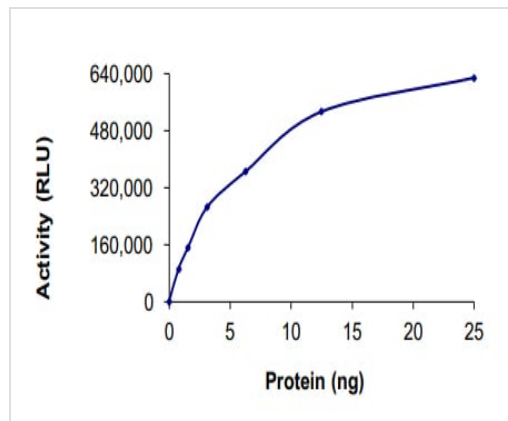
## Sequence similarities

Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC subfamily.  
Contains 1 AGC-kinase C-terminal domain.  
Contains 1 PH domain.  
Contains 1 protein kinase domain.

## Post-translational modifications

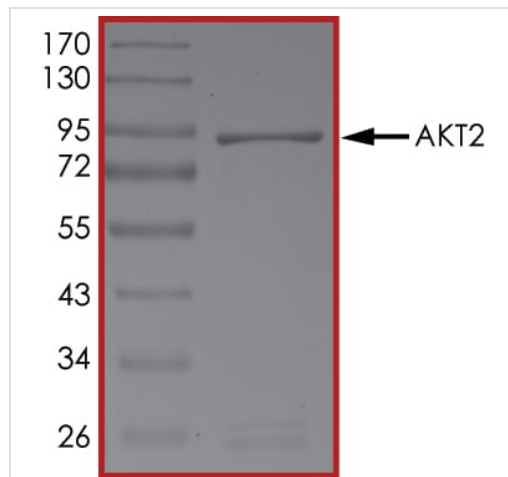
Phosphorylation on Thr-309 and Ser-474 is required for full activity.  
Ubiquitinated; undergoes both 'Lys-48'- and 'Lys-63'-linked polyubiquitination. TRAF6-induced 'Lys-63'-linked AKT2 ubiquitination. When fully phosphorylated and translocated into the nucleus, undergoes 'Lys-48'-polyubiquitination catalyzed by TTC3, leading to its degradation by the proteasome.

## Images



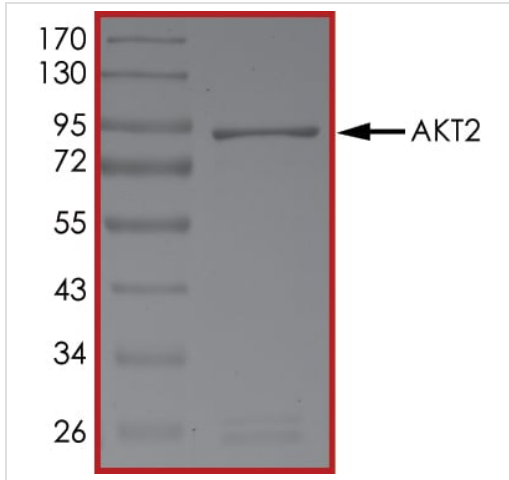
The specific activity of AKT2 (ab60322) was determined to be 80 nmol/min/mg as per activity assay protocol and was equivalent to 52 nmol/min/mg as per radiometric assay

Functional Studies - Recombinant human AKT2 protein (ab60322)



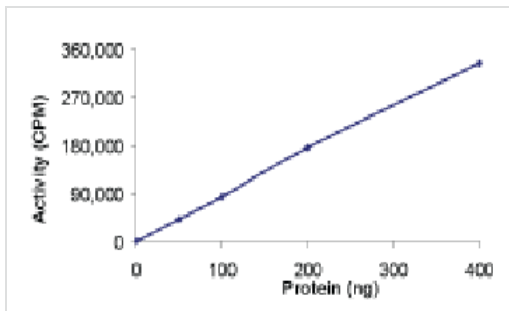
SDS PAGE analysis of ab60322

SDS-PAGE - Recombinant human AKT2 protein (ab60322)



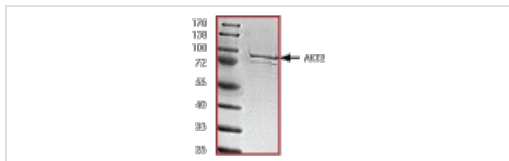
SDS PAGE analysis of ab60322

SDS-PAGE - Recombinant human AKT2 protein (ab60322)



Sample Kinase Activity Plot.

Functional Studies - Recombinant human AKT2 protein (ab60322)



ab60322 on SDS-PAGE, MW ~85kDa.

SDS-PAGE - Recombinant human AKT2 protein (ab60322)

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

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