

## Product datasheet

# Anti-AKT2 antibody ab9763

[2 Images](#)

### Overview

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<b>Product name</b>	Anti-AKT2 antibody
<b>Description</b>	Rabbit polyclonal to AKT2
<b>Host species</b>	Rabbit
<b>Specificity</b>	This product has been assayed by ELISA against 0.1 µg of the immunizing peptide. A 1/4000 to 1/16000 dilution of the antibody is recommended for this assay.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide corresponding to Human AKT2 aa 455-468 conjugated to Keyhole Limpet Haemocyanin (KLH). Sequence: RYDSLGLLELDQRT

 [Run BLAST with](#)

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### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab9763** in the following tested applications.

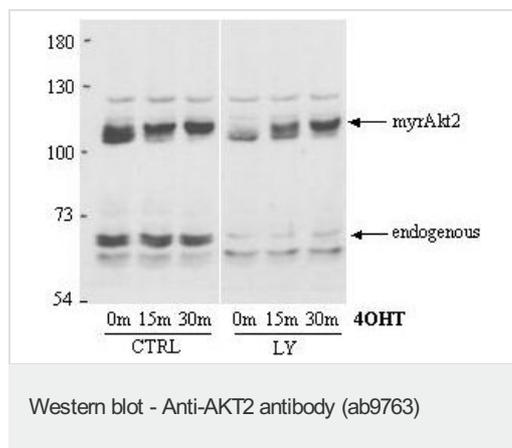
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 60 kDa (predicted molecular weight: 56 kDa).

## Target

<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.
<b>Sequence similarities</b>	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.
<b>Post-translational modifications</b>	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.

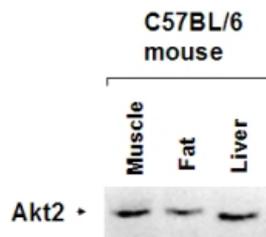
## Images



ab9763 used with a stable HEK293 cell line expressing an inducible, myristoylated form of Akt2 (MyrAkt2-ER). In response to 4OHT (tamoxifen), the Akt2 is recruited to the plasma membrane via its myristoylation sequence and becomes phosphorylated and activated. The blot shows 0m, 15m, and 30m of 4OHT treatment (which has no effect on endogenous Akt2, but causes a band shift upwards in the MyrAkt2). Endogenous Akt2 runs at about 60kDa whereas the myristoylated construct runs at around 110kDa.

The second panel of 3 lanes is pretreated for 15min with 25uM LY294002 which affects the phosphorylation of endogenous Akt2 but has no effect on phosphorylation of the myristoylated construct. This confirms that the antibody picks up phosphorylated and non-phosphorylated forms of Akt2 whether it be endogenous or transfected in.

ab9763 used with a



Western blot - Anti-AKT2 antibody (ab9763)

ab9763 tested in Western blot with mouse tissues. This image was kindly provided as part of the review Jianping Ye. ab9763 tested in Western blot with mouse tissues. This image was kindly provided as part of the review Jianping Ye.

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