

## Datasheet: AHP2546

**BATCH NUMBER 141508**

<b>Description:</b>	RABBIT ANTI AKT1 (pThr450)
<b>Specificity:</b>	AKT1 (pThr450)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	■			1/500 - 1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antiserum to AKT1 (pThr450) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide 50% Glycerol
<b>Immunogen</b>	Phospho specific-peptide corresponding to residues surrounding threonine 450 of human AKT1
<b>External Database Links</b>	<b>UniProt:</b> <a href="http://www.uniprot.org/entry/P31749">P31749</a> <a href="#">Related reagents</a>

**Entrez Gene:**[207](#) AKT1 [Related reagents](#)

<b>Synonyms</b>	PKB, RAC
<b>Specificity</b>	<b>Rabbit anti AKT1 (pThr450) antibody</b> recognizes AKT1, also known as RAC-alpha serine/threonine-protein kinase, protein kinase B alpha or Proto-oncogene c-Akt, when phosphorylated at threonine 450. AKT1 is a 480 amino acid ~48 kDa protein kinase that play a key role in the PI3K-Akt signaling pathway, known to regulate cell growth, proliferation and survival. Phosphorylation of threonine 308 and serine 473 are required for full activation of AKT1. Newly synthesized Akt is suggested to require phosphorylation at threonine 450 for proper protein folding ( <a href="#">Liao and Hung 2010</a> ).
<b>Further Reading</b>	1. Liao Y, Hung M-C. (2010) Physiological regulation of Akt activity and stability American Journal of Translational Research. 2 (1): 19-42.
<b>Storage</b>	Store at -20°C Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2546">https://www.bio-rad-antibodies.com/SDS/AHP2546</a> 10049
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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