

Datasheet: AHP2544

**BATCH NUMBER 148374**

<b>Description:</b>	RABBIT ANTI AKT1 (pSer473)
<b>Specificity:</b>	AKT1 (pSer473)
<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 - 1/2000

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.

### Target Species

Human

### Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat  
**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antiserum to AKT1 (pSer473) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.02% Sodium Azide  
 50% Glycerol

**Immunogen** Phospho specific-peptide corresponding to residues surrounding serine 473 of human AKT1

**External Database Links**

**UniProt:**  
[P31749](#)    [Related reagents](#)

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

**Synonyms** PKB, RAC

**Specificity** **Rabbit anti AKT1 (pSer473) antibody** recognizes AKT1, also known as RAC-alpha serine/threonine-protein kinase, protein kinase B alpha or Proto-oncogene c-Akt, when phosphorylated at serine 473. AKT1 is a 480 amino acid ~48 kDa protein kinase forming part of 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.

**Storage** 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.

**Guarantee** 12 months from date of despatch

**Health And Safety Information** Material Safety Datasheet documentation #10049 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP2544>  
10049

**Regulatory** 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](http://bio-rad-antibodies.com/datasheets)

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