

## Datasheet: AHP2547

<b>Description:</b>	RABBIT ANTI AKT1 (pTyr315)/AKT2 (pTyr316)/AKT3 (pTyr312)
<b>Specificity:</b>	AKT1 (pTyr315)/AKT2 (pTyr316)/AKT3 (pTyr312)
<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>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with: Mouse <b>N.B.</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.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antiserum to AKT1 (pTyr315)/AKT2 (pTyr316)/AKT3 (pTyr312) 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 tyrosine 315 of human

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**External Database****Links****UniProt:**[P31749](#)      [Related reagents](#)[P31751](#)      [Related reagents](#)[Q9Y243](#)      [Related reagents](#)**Entrez Gene:**[207](#)      AKT1      [Related reagents](#)[208](#)      AKT2      [Related reagents](#)[10000](#)      AKT3      [Related reagents](#)

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**Synonyms**

PKB, PKBG, RAC

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**Specificity**

**Rabbit anti AKT1 (pTyr315)/AKT2 (pTyr316)/AKT3 (pTyr312) antibody** recognizes AKT1 when phosphorylated at tyrosine 315, AKT2 when phosphorylated at tyrosine 316 and AKT3 when phosphorylated at tyrosine 312. AKT 1, 2 and 3 are serine/threonine protein kinases that play a key role in the PI3K-Akt signaling pathway, known to regulate cell growth, proliferation and survival. AKT1 is phosphorylated at tyrosine 315 (corresponding to tyrosine 316/312 of AKT2/AKT3 respectively) by Src and PTK6, tyrosine phosphorylation is important for growth factor mediated activation of AKT ([Zheng et al. 2010](#)).

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**Further Reading**

1. Zheng, Y. *et al.* (2010) Protein tyrosine kinase 6 directly phosphorylates AKT and promotes AKT activation in response to epidermal growth factor [Mol Cell Biol. 30 \(17\): 4280-92.](#)

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10049 available at:  
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

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**Regulatory**

For research purposes only

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## 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](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

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

**North & South** Tel: +1 800 265 7376

**Worldwide**

Tel: +44 (0)1865 852 700

**Europe**

Tel: +49 (0) 89 8090 95 21

**America** Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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

'M390254:210825'

Printed on 29 Aug 2021

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