

Datasheet: AHP2547

BATCH NUMBER 141509

Description:	RABBIT ANTI AKT1 (pTyr315)/AKT2 (pTyr316)/AKT3 (pTyr312)
Specificity:	AKT1 (pTyr315)/AKT2 (pTyr316)/AKT3 (pTyr312)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse

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 (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.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.02% Sodium Azide
50% Glycerol

Immunogen Phospho specific-peptide corresponding to residues surrounding tyrosine 315 of human AKT1/ tyrosine 316 of human AKT2/ tyrosine 312 of human AKT3

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](#)

Synonyms PKB, PKBG, RAC

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](#)).

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](#).

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/AHP2547>
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

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