

Datasheet: AHP2547

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.
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
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Preservative	0.02% Sodium Azide
Stabilisers	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
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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](#)

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).
Western Blotting	Due to the presence of phosphoproteins in milk, the use of milk based blocking reagents is not recommended. 1% BSA in PBS or TBS Tween should be used instead.
Further Reading	1. Zheng, Y. <i>et al.</i> (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.
Shelf Life	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
 Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
 Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
 Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
 Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
 Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

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

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