

Datasheet: AHP2548

Description:	RABBIT ANTI AKT2 (pSer474)
Specificity:	AKT2 (pSer474)
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
Immunohistology - Paraffin	■			1/50 - 1/100
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.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to AKT2 (pSer474) 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	0.02% Sodium Azide
Stabilisers	50% Glycerol
Immunogen	Phospho specific-peptide corresponding to residues surrounding serine 474 of human AKT2
External Database Links	UniProt: P31751 Related reagents Entrez Gene: 208 AKT2 Related reagents
Specificity	Rabbit anti AKT2 (pSer474) antibody recognizes AKT2 also known as RAC-beta

serine/threonine-protein kinase and protein kinase B beta, when phosphorylated at serine 474. AKT2 is a serine/threonine protein kinase that plays a key role in the PI3K-Akt signaling pathway, known to regulate cell growth, proliferation and survival. AKT2 is specifically involved in the insulin receptor signaling pathway. AKT2 is phosphorylated at serine 474 by (MAPK)-activated protein kinase-2, integrin-linked kinase, p38 MAPK, PKC α , PKC β II, mTORC2, double-stranded DNA-dependent PK, autophosphorylation and ATM. Phosphorylation at threonine 309 and serine 474 are required for full activation of AKT2 ([Suizu et al. 2009](#)).

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. Suizu, F. et al. (2009) The E3 ligase TTC3 facilitates ubiquitination and degradation of phosphorylated Akt Dev Cell. 17 (6): 800-10.
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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