

Datasheet: VMA00900

Description:	RABBIT ANTI AKT (pSer473)
Specificity:	AKT (pSer473)
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	RM251
Isotype:	IgG
Quantity:	100 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	▪			1/200 - 1/500
Western Blotting	▪			1/1000 - 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, Bovine
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

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
 1% Bovine Serum Albumin

50% Glycerol

Immunogen A phospho-peptide corresponding to Human Akt (pSer473)

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 Human Akt (pSer473) antibody** recognizes RAC-alpha serine/threonine-protein kinase, also known as Protein Kinase B alpha, proto-oncogene c-Akt, RAC, when phosphorylated at serine 473. The Akt family comprises three serine-threonine kinases, Akt1, Akt2, and Akt3, which play important roles in cell survival and proliferation ([Barnett et al. 2005](#)). The PI3K/Akt signaling pathway is activated by growth factors, which in turn activates Akt, and regulates cell survival during stress ([Hemmings and Restuccia et al. 2012](#)). Phosphorylation of threonine 308 and serine 473 are required for full activation of AKT1 ([Jacinto et al. 2006](#)).

Western Blotting Rabbit anti AKT (pSer473) antibody detects a band of approximately 57 kDa in Jurkat cell lysates.

Storage Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. 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 #10048 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00900>
10048

Regulatory For research purposes only

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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](https://www.bio-rad-antibodies.com/datasheets)

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