

Datasheet: VMA00900

**BATCH NUMBER 155804**

<b>Description:</b>	RABBIT ANTI AKT (pSer473)
<b>Specificity:</b>	AKT (pSer473)
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	RM251
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://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

0.09% Sodium Azide

**Stabilisers** 1% Bovine Serum Albumin  
50% Glycerol

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

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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 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](#)).

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

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety  
Information** Material Safety Datasheet documentation #10048 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00900>  
10048

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**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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