# Datasheet: VMA00900

## BATCH NUMBER 171327

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|---|---|
| **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**

0.09% Sodium Azide

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|---|---|
| **Stabilisers** | 1% Bovine Serum Albumin<br>50% Glycerol |
| **Immunogen** | A phospho-peptide corresponding to Human Akt (pSer473) |
| **External Database Links** | **UniProt:**<br>P31749 Related reagents<br>P31751 Related reagents<br>Q9Y243 Related reagents<br><br>**Entrez Gene:**<br>207 AKT1 Related reagents<br>208 AKT2 Related reagents<br>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.<br>Storage in frost-free freezers is not recommended.<br>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:<br>https://www.bio-rad-antibodies.com/SDS/VMA00900 |
| **Regulatory** | For research purposes only |

**Product inquiries: www.bio-rad-antibodies.com/technical-support**

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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