

Datasheet: VMA00679

**BATCH NUMBER 64598215**

<b>Description:</b>	MOUSE ANTI PKA C-ALPHA
<b>Specificity:</b>	PKA C-ALPHA
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB01/1D9
<b>Isotype:</b>	IgG1
<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
Immunoprecipitation	▪			
Western Blotting	▪			1/1000
Immunofluorescence	▪			

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat  
**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

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant.

### Buffer Solution

Phosphate buffered saline.

<b>Preservative Stabilisers</b>	0.09% Sodium Azide.
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml.
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-351 of human PKA C-alpha
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P17612</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5566</a>    PRKACA    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	PKACA
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Human PKA C-alpha antibody</b> recognizes PKA C-alpha, also known as cAMP-dependent protein kinase catalytic subunit alpha, PRKACA, PPNAD4 and protein kinase A catalytic subunit.</p> <p>Encoded by PRKACA, the ubiquitously-expressed protein PKA C-alpha is the catalytic subunit C alpha of the cyclic-AMP (cAMP)-dependent protein kinase, otherwise known as PKA (<a href="#">Berthon et al. 2015</a>). PKA is a serine/threonine kinase comprised of a regulatory subunit dimer and two catalytic subunits. Activation of PKA occurs when two cAMP molecules bind to each regulatory subunit, leading to release of the catalytic subunits. The catalytic subunits act as kinases propagate downstream signaling. Through this activity, PKA is responsible for phosphorylating a wide range of substrates, and is considered an essential regulator of many cell signaling events (<a href="#">Turnham and Scott 2016</a>). Somatic PRKACA mutations have been identified in tumors of the adrenal cortex (<a href="#">Berthon et al. 2015</a>). PRKACA may contribute to cancer progression, with extracellular PKA catalytic subunit found in the serum of patients with cancer, and increased PRKACA transcripts observed in breast cancer (<a href="#">Turnham and Scott 2016</a>).</p>
<b>Western Blotting</b>	Mouse anti PKA C-alpha detects a band of approximately 38 kDa in HeLa cell lysates.
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00679">https://www.bio-rad-antibodies.com/SDS/VMA00679</a> Antibody (10040)

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

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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://bio-rad-antibodies.com/datasheets)  
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