

Datasheet: VMA00246

**BATCH NUMBER 151112**

<b>Description:</b>	MOUSE ANTI AMPK ALPHA 1
<b>Specificity:</b>	AMPK ALPHA 1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	2B7
<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

**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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Purified recombinant fragment of human AMPK alpha 1 expressed in <i>E. coli</i>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13131</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5562</a>    PRKAA1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	AMPK1
<b>Specificity</b>	<p><b>Mouse anti Human AMPK alpha 1 antibody</b> recognizes the 5'-AMP-activated protein kinase catalytic subunit alpha-1, also known as 5'-AMP-activated protein kinase catalytic subunit alpha-1, 5'-AMP-activated protein kinase, catalytic alpha-1 chain, ACACA kinase, AMP -activate kinase alpha 1 subunit, AMP-activated protein kinase, catalytic, alpha-1, AMPK alpha 1, AMPK subunit alpha-1, HMGCR kinase, acetyl-CoA carboxylase kinase, hydroxymethylglutaryl-CoA reductase kinase and tau-protein kinase PRKAA1.</p> <p>Encoded by PRKAA1 gene, AMPK alpha 1 belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed (provided by RefSeq, Jul 2008).</p> <p>Mouse anti Human AMPK alpha 1 antibody detects a band of 64 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
<b>Western Blotting</b>	Anti AMPK alpha 1 detects a band of approximately 64 kDa in C6 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/VMA00246">https://www.bio-rad-antibodies.com/SDS/VMA00246</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

## 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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