

# Datasheet: MCA2673GA

**BATCH NUMBER 1805**

<b>Description:</b>	MOUSE ANTI AMPK ALPHA 1/2
<b>Specificity:</b>	AMPK ALPHA 1/2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	34.2
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.1 mg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/100 - 1/1000
Immunofluorescence	▪			

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.

<b>Target Species</b>	Drosophila
<b>Species Cross Reactivity</b>	<p>Reacts with: Human, Mouse, Rat</p> <p>Based on sequence similarity, is expected to react with: Vertebrates</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>	Purified IgG prepared by affinity chromatography on Protein G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	29 amino acid peptide within the N-terminal catalytic domain of Drosophila AMPK alpha.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P54646</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q13131</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">5563</a>    PRKAA2    <a href="#">Related reagents</a></p> <p><a href="#">5562</a>    PRKAA1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	AMPK, AMPK1, AMPK2
<b>RRID</b>	AB_1604623
<b>Specificity</b>	<p><b>Mouse anti AMPK Alpha 1/2 antibody, clone 34.2</b> recognises both the alpha 1 and the alpha 2 isoforms of AMP-activated protein kinase (AMPK). AMPK is a highly conserved heterotrimeric protein kinase found in all eukaryotes. The heterotrimeric complex exists as multiple isoforms and consists of a catalytic alpha subunit, which is stabilised by non-catalytic regulatory beta- and gamma- subunits. AMPK plays a vital role in maintaining cellular energy homeostasis and is activated by rising levels of AMP under conditions of hypoxia, ischemia, exercise, low glucose levels.</p> <p>AMPK may play an important role in the control of type 2 diabetes and metabolic syndromes. Recent studies suggest that AMPK functions as a suppressor of cell proliferation of both malignant and normal cells.</p>
<b>Western Blotting</b>	MCA2673GA detects a band of approximately 63kDa in rat brain cell lysates.
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch

**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA2673GA>  
10040

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

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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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