

Datasheet: VMA00246

Description:	MOUSE ANTI AMPK ALPHA 1
Specificity:	AMPK ALPHA 1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	2B7
Isotype:	IgG1
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
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.

Target Species

Human

Species Cross Reactivity

Reacts with: 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 prepared by affinity chromatography on Protein G from ascites.

Buffer Solution

Phosphate buffered saline.

Preservative

0.09% Sodium Azide (NaN₃).

Stabilisers

Approx. Protein Concentrations IgG concentration 0.5 mg/ml.

Immunogen Purified recombinant fragment of human AMPK alpha 1 expressed in *E. coli*

External Database Links

UniProt:

[Q13131](#) [Related reagents](#)

Entrez Gene:

[5562](#) PRKAA1 [Related reagents](#)

Synonyms AMPK1

Specificity

Mouse anti Human AMPK alpha 1 antibody 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.

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).

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.

Western Blotting Anti AMPK alpha 1 detects a band of approximately 64 kDa in C6 cell lysates.

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee 12 months from date of despatch.

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only.

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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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