Datasheet: VMA00246

Description:	MOUSE ANTI AMPK ALPHA 1
Specificity:	AMPK ALPHA 1
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
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
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively validated for the western blot application. The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Preparation

Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)

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
Instructions For Use	Please refer to the PrecisionAb western blotting protocol. For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20^{o}C, avoiding repeated freeze thaw cycles.
Shelf Life	As supplied, 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 America	Tel: +1 800 265 7376 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

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