

Datasheet: AHP2256

Description:	GOAT ANTI HUMAN AMPK ALPHA 2
Specificity:	AMPK ALPHA 2
Other names:	PRKAA2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/16000
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 3.0 ug/ml

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.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat Based on sequence similarity, is expected to react with: Dog, Bovine, Pig N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human AMPK alpha 2 was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml

Immunogen Synthetic peptide sequence CPLDALNTTKP from the internal region of AMPK alpha 2 (NP_006243.2).

External Database

Links

UniProt:

[P54646](#) [Related reagents](#)

Entrez Gene:

[5563](#) PRKAA2 [Related reagents](#)

Synonyms

AMPK, AMPK2

Specificity

Goat anti Human AMPK alpha 2 antibody recognizes human 5'-AMP-activated protein kinase catalytic subunit alpha-2, also known as AMPK alpha 2, ACACA kinase, Acetyl-CoA carboxylase kinase or Hydroxymethylglutaryl-CoA reductase kinase, encoded by the PRKAA2 gene. AMPK alpha 2 is a Serine/threonine-protein kinase and the catalytic subunit of the AMP-activated protein kinase (AMPK), a central metabolic sensor, essential for the regulation of fatty acid and cholesterol synthesis, in response to fluctuations in nutrient and intracellular energy levels.

AMPK has been implicated as a suppressor of cell proliferation of both normal and malignant cells. AMPK binding to the PS domain of ULK1, is essential for ULK1-mediated autophagy ([Roach et al. 2011](#)), and that the phosphorylation of raptor by AMPK, plays an important role in autophagy induction ([Egan et al. 2011](#)).

Western Blotting

AHP2256 detects a band of approximately 65kDa in Human heart and liver cell lysates.

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10058 available at:
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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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