

Datasheet: AHP2256

BATCH NUMBER 165115

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. 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

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
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Preservative	0.02% Sodium Azide (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin

Approx. Protein Concentrations	IgG concentration 0.5mg/ml
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Immunogen	Synthetic peptide sequence CPLDALNTTKP from the internal region of AMPK alpha 2 (NP_006243.2).
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External Database Links	UniProt: P54646 Related reagents Entrez Gene: 5563 PRKAA2 Related reagents
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Synonyms	AMPK, AMPK2
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RRID	AB_10896338
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Specificity	<p>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.</p> <p>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).</p>
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Western Blotting	AHP2256 detects a band of approximately 65kDa in Human heart and liver cell lysates.
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Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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Guarantee	12 months from date of despatch
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Health And Safety	Material Safety Datasheet documentation #10058 available at:
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Information <https://www.bio-rad-antibodies.com/SDS/AHP2256>
10058

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [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://www.bio-rad-antibodies.com/datasheets)

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