

Datasheet: AHP2256

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|----------------------|------------------------------|
| 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.

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|---------------------------------------|---|
| 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 | <p>UniProt: P54646 Related reagents</p> <p>Entrez Gene: 5563 PRKAA2 Related reagents</p> |
| Synonyms | AMPK, AMPK2 |
| RRID | AB_10896338 |
| 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> |
| Western Blotting | AHP2256 detects a band of approximately 65kDa in Human heart and liver cell lysates. |
| 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> |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10058 available at: https://www.bio-rad-antibodies.com/SDS/AHP2256 10058 |

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

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