# Rabbit anti-Human, mouse AMPK alpha 1 Polyclonal Antibody | anti-PRKAA1 antibody

AMPK alpha 1 Antibody (C-term)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA286208** | **Rabbit** | **Human, mouse** | **ELISA, Western Blot** |

## PRODUCT SYNONYMS

AMPK alpha 1; Polyclonal Antibody; AMPK alpha 1 Antibody (C-term); 5'-AMP-activated protein kinase catalytic subunit alpha-1; AMPK subunit alpha-1; Acetyl-CoA carboxylase kinase; ACACA kinase; Hydroxymethylglutaryl-CoA reductase kinase; HMGCR kinase; Tau-protein kinase PRKAA1; PRKAA1; AMPK1; anti-PRKAA1 antibody

## PRODUCT SPECIFICATIONS

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| **Host** | Rabbit |
| **Reactivity** | Human, mouse |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit Ig |
| **Specificity** | This AMPK alpha 1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 479-510 amino acids from the C-terminal region of human AMPK alpha 1. |
| **Purity/Purification** | Purified Rabbit Polyclonal Antibody (Pab) |
| **Form/Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Concentration** | Vial Concentration: 2 (varies by lot) |
| **Sequence Positions** | 479-510 |
| **Sequence Length** | 574 |
| **Applicable Applications for anti-PRKAA1 antibody** | ELISA, WB (Western Blot) |
| **Antigen Type** | Synthetic Peptide |
| **Antigen Source** | HUMAN |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

## IMAGES



**WB (Western Blot)**
AMPKalpha1 Antibody (C494) western blot analysis in SK-BR-3 cell line lysates (35ug/lane).This demonstrates the AMPKalpha1 antibody detected the AMPKalpha1 protein (arrow).



**WB (Western Blot)**
Western blot analysis of anti-AMPK alpha 1 C-term Pab in mouse liver lysate. AMPK alpha 1 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-PRKAA1 antibody** | AMPK is responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. It appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. AMPK alpha1, a member of the Ser/Thr protein kinase family, is a catalytic subunit of AMPK. |
| **Product Categories/Family for anti-PRKAA1 antibody** | Cancer; Cardiovascular; Metabolism; Neuroscience; Signal transduction |
| **References** | Zhang, Q.H., et al., Genome Res. 10(10):1546-1560 (2000).<br>Stapleton, D., et al., J. Biol. Chem. 271(2):611-614 (1996). |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 94557301 |
| **NCBI GeneID** | 5562 |
| **NCBI Accession #** | NP_006242.5; NP_996790.3 |
| **NCBI GenBank Nucleotide #** | NM_006251.5 |
| **UniProt Accession #** | Q13131; O00286; Q5D0E1; Q86VS1; Q9UNQ4; A8MTQ6; B2R7E1 |
| **Molecular Weight** | 64009 |
| **NCBI Official Full Name** | 5'-AMP-activated protein kinase catalytic subunit alpha-1 isoform 1 |
| **NCBI Official Synonym Full Names** | protein kinase, AMP-activated, alpha 1 catalytic subunit |
| **NCBI Official Symbol** | PRKAA1 |
| **NCBI Official Synonym Symbols** | AMPK; AMPKa1 |
| **NCBI Protein Information** | 5'-AMP-activated protein kinase catalytic subunit alpha-1 |
| **UniProt Protein Name** | 5'-AMP-activated protein kinase catalytic subunit alpha-1 |
| **UniProt Gene Name** | **PRKAA1** |
| **UniProt Synonym Gene Names** | AMPK1; AMPK subunit alpha-1; ACACA kinase; HMGCR kinase |
| **UniProt Entry Name** | AAPK1_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/ampk-alpha-1-antibody-western-blot-elisa/286208