

## 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 |

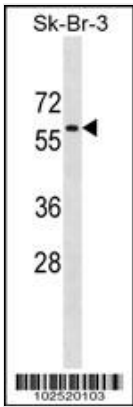
### PRODUCT SYNONYMS

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

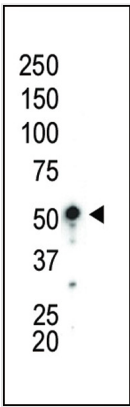
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| 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://www.aaabiotech.com/polyclonal/ampk-alpha-1-antibody-western-blot-elisa/286208>