

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

Anti-AMPK alpha 1 (pS496) Phospho Antibody

| CATALOG # | HOST   | REACTIVITY                 | APPLICATIONS                                                                |
|-----------|--------|----------------------------|-----------------------------------------------------------------------------|
| AAA259980 | Rabbit | Human, Mouse, Rat, Chicken | Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

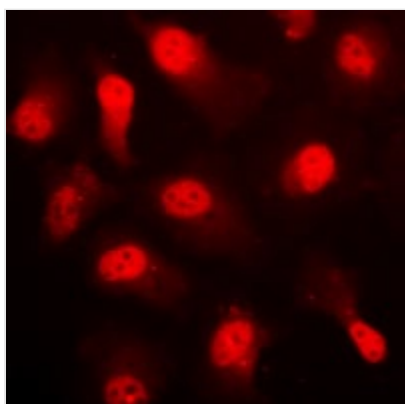
### PRODUCT SYNONYMS

AMPK alpha 1; Polyclonal Antibody; Anti-AMPK alpha 1 (pS496) Phospho Antibody; AMPK1; 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; anti-PRKAA1 antibody

### PRODUCT SPECIFICATIONS

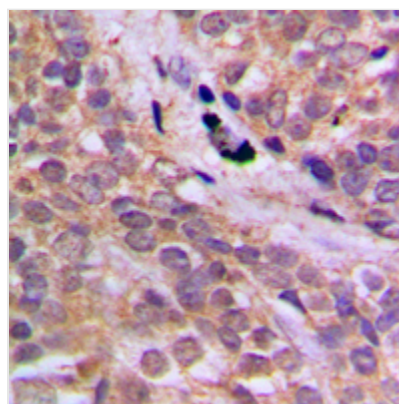
|                                                  |                                                                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                      |
| Reactivity                                       | Human, Mouse, Rat, Chicken                                                                                                                  |
| Clonality                                        | Polyclonal                                                                                                                                  |
| Specificity                                      | Recognizes endogenous levels of AMPK alpha 1 (pS496) protein.                                                                               |
| Purity/Purification                              | The antibody was purified by immunogen affinity chromatography.                                                                             |
| Form/Format                                      | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                   |
| Sequence Length                                  | 559                                                                                                                                         |
| Applicable Applications for anti-PRKAA1 antibody | ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                           |
| Immunogen                                        | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human AMPK alpha 1. The exact sequence is proprietary. |
| Preparation and Storage                          | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.                              |

### IMAGES



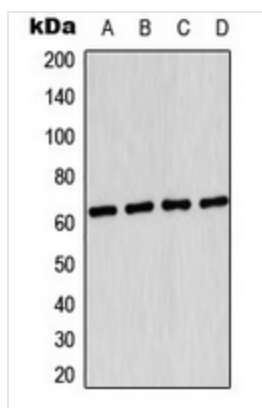
#### IF (Immunofluorescence)

Immunofluorescent analysis of AMPK alpha 1 (pS496) staining in HUVEC cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of AMPK alpha 1 (pS496) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



#### WB (Western Blot)

Western blot analysis of AMPK alpha 1 (pS496) expression in HUVEC UV-treated (A), HeLa (B), SP2/0 (C), PC12 (D) whole cell lysates.

## ADDITIONAL INFORMATION

**Related Product Information for anti-PRKAA1 antibody**

Rabbit polyclonal antibody to AMPK alpha 1 (pS496)

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| NCBI GI #                        | 94557301                                                            |
| NCBI GeneID                      | 5562                                                                |
| NCBI Accession #                 | NP_006242.5                                                         |
| NCBI GenBank Nucleotide #        | NM_006251.5                                                         |
| UniProt Accession #              | Q13131; O00286; Q5D0E1; Q86VS1; Q9UNQ4; A8MTQ6; B2R7E1              |
| Molecular Weight                 | 65,523 Da                                                           |
| 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                | <b>PRKAA1</b>                                                       |
| UniProt Synonym Gene Names       | AMPK1; AMPK subunit alpha-1; ACACA kinase; HMGCRC 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ampk-alpha-1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/259980>