

## Mouse AMPKalpha1 Monoclonal Antibody | anti-AMPKalpha1 antibody

AMPKalpha1 (9G3) Mouse mAb

|                               |                      |                                        |                                                           |
|-------------------------------|----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA276899</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Rat, Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|----------------------|----------------------------------------|-----------------------------------------------------------|

### PRODUCT SYNONYMS

AMPKalpha1; Monoclonal Antibody; AMPKalpha1 (9G3) Mouse mAb; AAPK1; 5 AMP activated protein kinase alpha 1 catalytic subunit; PRKAA1; SNF1A; MGC33776; anti-AMPKalpha1 antibody

### PRODUCT SPECIFICATIONS

|                                                      |                                                           |
|------------------------------------------------------|-----------------------------------------------------------|
| Host                                                 | Mouse                                                     |
| Reactivity                                           | Human, Rat, Mouse                                         |
| Clonality                                            | Monoclonal                                                |
| Isotype                                              | IgG1                                                      |
| Form/Format                                          | PBS with 0.02% sodium azide and 50% glycerol pH7.4.       |
| Concentration                                        | 1mg/ml (varies by lot)                                    |
| Applicable Applications for anti-AMPKalpha1 antibody | IHC (Immunohistochemistry), WB (Western Blot)             |
| Species                                              | Human                                                     |
| Immunogen                                            | Recombinant Protein                                       |
| Preparation and Storage                              | Store at -20 degree C. Avoid repeated freeze-thaw cycles. |

### IMAGES



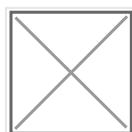
#### IHC (Immunohistochemisry)

Immunohistochemical analysis of paraffin-embedded Human Skeletal Muscle Tissue using AMPK a1(EM1327)Mouse mAb diluted at 1:200.



#### IHC (Immunohiostchemistry)

Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma Tissue using AMPK a1(EM1327)Mouse mAb diluted at 1:200.



#### WB (Western Blot)

Western blot analysis of 1) Hela Cell Lysate, 2) Mouse Brain Tissue Lysate, 3) Rat Brain Tissue Lysate using AMPK a1 (EM1327) Mouse mAb diluted at 1:2000.

### ADDITIONAL INFORMATION

#### Related Product Information for anti-AMPKalpha1 antibody

AMP-activated protein kinase (AMPK) is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy homeostasis. AMPK is a heterotrimeric complex composed of a catalytic alpha subunit and regulatory beta and gamma subunits, each of which is encoded by two or three distinct genes (alpha1, 2; beta1, 2; gamma1, 2, 3).

|                                                        |                    |
|--------------------------------------------------------|--------------------|
| Product Categories/Family for anti-AMPKalpha1 antibody | Cytoplasm; Nucleus |
|--------------------------------------------------------|--------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 27469582                                                                                                                                                                                                                                                       |
| NCBI GeneID                      | 5562                                                                                                                                                                                                                                                           |
| UniProt Accession #              | Q13131; O00286; Q5D0E1; Q86VS1; Q9UNQ4; A8MTQ6; B2R7E1                                                                                                                                                                                                         |
| Molecular Weight                 | 64,009 Da                                                                                                                                                                                                                                                      |
| NCBI Official Full Name          | PRKAA1 protein                                                                                                                                                                                                                                                 |
| 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; ACACA kinase; AMPK alpha 1; HMGCR kinase; AMPK subunit alpha-1; tau-protein kinase PRKAA1; acetyl-CoA carboxylase kinase; AMP -activate kinase alpha 1 subunit; hydroxymethylglutaryl-CoA reductase |
| 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; 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/monoclonal/ampkalpha1-antibody-immunohistochemistry-western-blot-elisa/276899>