



# Phospho-AMPK alpha 2 (Thr172) Rabbit mAb

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Catalog No</b>         | YP-Ab-17884                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reactivity</b>         | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>       | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>          | PRKAA2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Alternative Names</b>  | PRKAA2; AMPK; AMPK2; 5'-AMP-activated protein kinase catalytic subunit alpha-2; AMPK subunit alpha-2; Acetyl-CoA carboxylase kinase; ACACA kinase; Hydroxymethylglutaryl-CoA reductase kinase; HMGCR kinase                                                                                                                                                                                                                                                                                                                        |
| <b>Research Field</b>     | Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Product Categories</b> | Primary antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Host</b>               | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Weight</b>   | Calculated MW: 62 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Clonality</b>          | Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Clonality No.</b>      | R03-6K2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Dilution</b>           | WB: 1/500-1/1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | A synthesized peptide derived from human AMPK alpha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purification</b>       | Affinity Chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Conjugation</b>        | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Modification</b>       | Phosphorylated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Buffer System</b>      | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>            | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Background</b>         | 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 ( $\alpha$ 1, 2; $\beta$ 1, 2; $\gamma$ 1, 2, 3). The kinase is activated by an elevated AMP/ATP ratio due to cellular and environmental stress, such as heat shock, hypoxia, and ischemia. |

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**