

Anti-Phospho-AMPK alpha 2 (Thr172) Rabbit Monoclonal Antibody

Introduction

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 α subunit and regulatory β and γ 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.

Product parameters

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|-------------------|---|
| Alternative Names | 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 |
| Gene ID | 5563 |
| Gene Name | PRKAA2 |
| SwissProt ID | P54646 |
| Host | Rabbit |
| Reactivity | Human, Mouse, Rat |
| Molecular Weight | Calculated MW: 62 kDa |
| Conjugation | Unconjugated |
| Ex | - |
| Em | - |
| Modification | Phosphorylated |
| Clonality | IgG |
| Isotype | Monoclonal Antibody |
| Clonality No. | AP-7H3G2 |
| Form | Liquid |
| Concentration | See label |
| Carrier | Carrier Free |
| Immunogen | A synthesized peptide derived from human AMPK alpha |
| Purification | Affinity Chromatography |
| Buffer System | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Application | WB |
| Dilution Ratio | WB: 1/500-1/1000 |

| | |
|--------------------|----------------------------------|
| Research Field | Neuroscience |
| Product Categories | Primary antibody |
| Shipping | Blue ice |
| Storage | -20°C |
| Expiration Date | 12 months |
| Note | Please avoid freeze-thaw cycles. |



Protocol

Configure the product according to the application range and recommended dilution ratio.

***Note:** The primary antibody dilution buffer options: WB - Primary Antibody Dilution Buffer (Cat. #: K1200, Not for HRP/AP conjugated antibodies), Immunostaining - Immunol Staining Primary Antibody Dilution Solution (Cat. #: K4655).

Note

1. This product is for scientific research use only.





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