

# Anti-AMPK alpha 2 Rabbit mAb

Purified Rabbit Monoclonal Antibody

Catalog # R012284

## Product Information

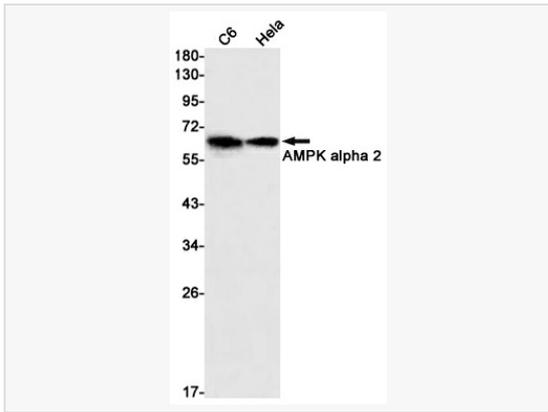
|             |   |
|-------------|---|
| Application | WB, IP, ELISA   |
| Reactivity  | Human, Rat  |
| Dilution    | WB 1:500~1:1,000; IP 1:20   |
| Host        | Rabbit  |
| Clonality   | Monoclonal  |
| Clone No.   | 26L73M89  |
| Isotype     | IgG   |
| Label       | Unconjugated  |
| Immunogen   | Recombinant protein of human AMPK alpha 2   |
| Format      | Buffer System: 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA Purification: Affinity Purified. |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.           |
| Precautions | Anti-AMPK alpha 2 antibody [26L73M89] is for research use only and not for use in diagnostic or therapeutic procedures.               |

## Protein Information

|               |   |
|---------------|---|
| Synonyms      | 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.  |
| Calculated MW | Calculated MW: 62 kDa; Observed MW: 62 kDa  |
| Uniprot ID    | P54646  |
| Gene ID       | 5563  |
| Background    | 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. |

## Validation Images

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Western blot analysis of AMPK alpha 2 in C6, HeLa lysates using AMPK alpha 2 antibody.