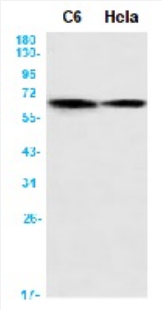
RecomAb™

# PRKAA2 recombinant monoclonal antibody, clone R06-2E8

Catalog # RAB01608 Size 100 uL

## Applications




### Western Blot

Western blot analysis of AMPK alpha 2 in C6, Hela lysates using human AMPK alpha 2 recombinant monoclonal antibody, clone R06-2E8 (Cat # RAB01608).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human AMPK alpha 2. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to human AMPK alpha 2 |
| **Theoretical MW (kDa)** | Calculated MW: 62 kD |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (CHO) expression system |
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunoprecipitation(1:20)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |

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| | |
|---|---|
| **Storage Buffer** | In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA). |
| **Storage Instruction** | Store at 4°C for short term. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunoprecipitation
- Western Blot

  Western blot analysis of AMPK alpha 2 in C6, Hela lysates using human AMPK alpha 2 recombinant monoclonal antibody, clone R06-2E8 (Cat # RAB01608).

## Gene Info — PRKAA2

| | |
|---|---|
| **Entrez GeneID** | 5563 |
| **Protein Accession#** | P54646 |
| **Gene Name** | PRKAA2 |
| **Gene Alias** | AMPK, AMPK2, PRKAA |
| **Gene Description** | protein kinase, AMP-activated, alpha 2 catalytic subunit |
| **Omim ID** | 600497 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMP K). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and ga mma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inacti vates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMG CR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studie s of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensit ivity and is necessary for maintaining myocardial energy homeostasis during ischemia. [provided by RefSeq |
| **Other Designations** | 5'-AMP-activated protein kinase, catalytic alpha-2 chain\|AMP-activated protein kinase alpha 2 ca talytic subunit\|AMPK-alpha-2 chain\|OTTHUMP00000009993 |

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## Pathway

- Adipocytokine signaling pathway
- Hypertrophic cardiomyopathy (HCM)
- Insulin signaling pathway
- mTOR signaling pathway
- Regulation of autophagy

## Disease

- Atherosclerosis
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Insulin Resistance

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