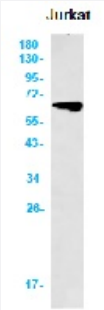
RecomAb™

PRKAA2 recombinant monoclonal antibody, clone R06-9C7

Catalog # RAB01657 Size 100 uL

Applications



Western Blot

Western blot analysis of AMPK alpha 1/2 in Jurkat lysates using human AMPK alpha 2 recombinant monoclonal antibody, clone R06-9C7 (Cat # RAB01657).

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) Western Blot (1:500-1:1,000) 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. 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 1/2 in Jurkat lysates using human AMPK alpha 2 recombinant monoclonal antibody, clone R06-9C7 (Cat # RAB01657).

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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