Datasheet for ABIN7263351

anti-PRKAA2 antibody

4 Images

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Overview

Quantity:	200 µL
Target:	PRKAA2
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein of human AMPKalpha2 (NP_006243.2).
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

Target Details

Target:	PRKAA2
Alternative Name:	AMPKalpha2 (PRKAA2 Products)
Background:	The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus

Target Details

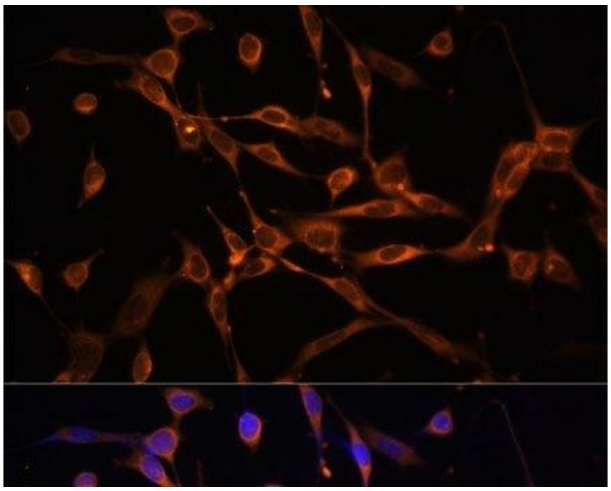
	phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia.
Molecular Weight:	Observed_MW: 69 kDa Calculated_MW: 62 kDa
Gene ID:	5563
UniProt:	P54646
Pathways:	AMPK Signaling, Carbohydrate Homeostasis, Chromatin Binding, Regulation of Carbohydrate Metabolic Process, Warburg Effect

Application Details

Application Notes:	WB 1:500-1:2000 IF 1:50-1:200
Restrictions:	For Research Use only

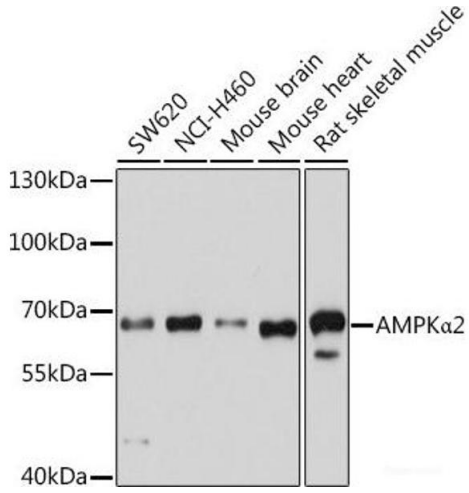
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



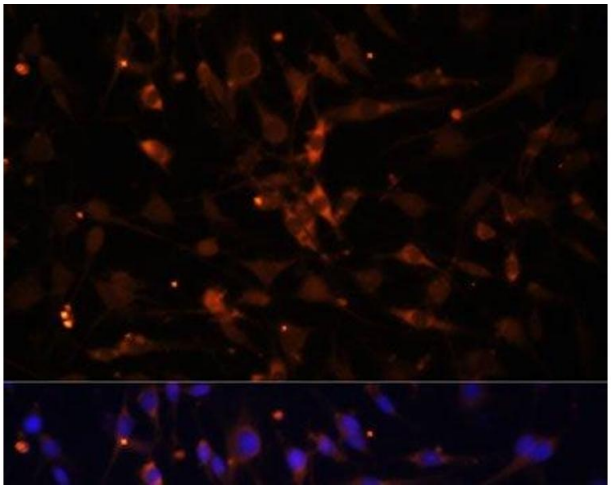
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH-3T3 cells using AMPKα2 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines using AMPKα2 Polyclonal Antibody at dilution of 1:1000.



Immunofluorescence

Image 3. Immunofluorescence analysis of C6 cells using AMPKα2 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the product details page for more images. Overall 4 images are available for ABIN7263351.