

Datasheet for ABIN7142664
anti-PRKAB1 antibody (AA 1-270)



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1 Image

Overview

Quantity:	100 µg
Target:	PRKAB1
Binding Specificity:	AA 1-270
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAB1 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human 5'-AMP-activated protein kinase subunit beta-1 protein (1-270AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PRKAB1
Alternative Name:	PRKAB1 (PRKAB1 Products)
Background:	Background: Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to

Target Details

reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton, probably by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3).

Aliases: 1300015D22Rik antibody, 5''-AMP-activated protein kinase subunit beta-1 antibody, 5'-AMP-activated protein kinase beta-1 subunit antibody, AAKB1_HUMAN antibody, AMP-activated protein kinase beta subunit antibody, AMP-ACTIVATED PROTEIN KINASE, NONCATALYTIC, BETA-1 antibody, AMP-activated, noncatalytic, beta-1 antibody, AMPK antibody, AMPK beta 1 chain antibody, AMPK subunit beta-1 antibody, AMPK-BETA-1 antibody, AMPKb antibody, AU021155 antibody, E430008F22 antibody, HAMPKb antibody, MGC17785 antibody, PRKAB1 antibody, Protein kinase AMP activated non catalytic subunit beta 1 antibody, protein kinase, AMP-activated, beta 1 non-catalytic subunit antibody, protein kinase, AMP-activated, noncatalytic, beta-1 antibody

UniProt: [Q9Y478](#)

Pathways: [AMPK Signaling](#), [Warburg Effect](#)

Application Details

Application Notes: Recommended dilution: IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

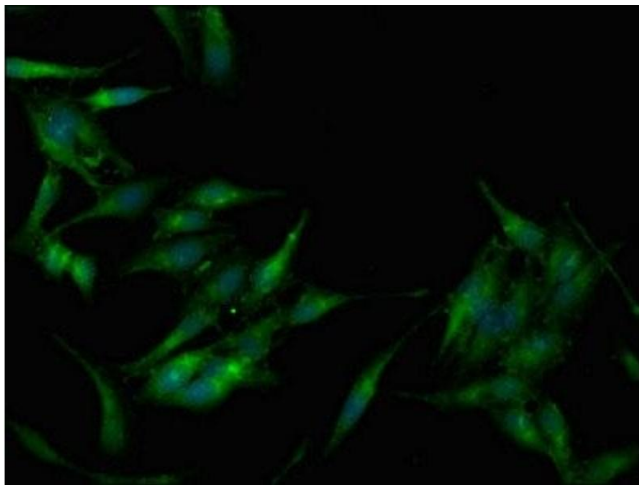
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Handling

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

Image 1. Immunofluorescent analysis of HeLa cells using ABIN7142664 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)