Datasheet for ABIN7142683

anti-PRKAG3 antibody (AA 1-210)

1 Image

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Overview

Quantity:	100 µL
Target:	PRKAG3
Binding Specificity:	AA 1-210
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAG3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Recombinant Human 5\\\'-AMP-activated protein kinase subunit gamma-3 protein (1-210AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	PRKAG3
Alternative Name:	PRKAG3 (PRKAG3 Products)
Background:	Background: AMP/ATP-binding subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response

Target Details

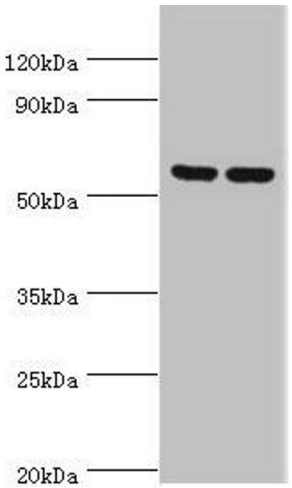
	to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton, probably by indirectly activating myosin. Gamma non-catalytic subunit mediates binding to AMP, ADP and ATP, leading to activate or inhibit AMPK: AMP-binding results in allosteric activation of alpha catalytic subunit (PRKAA1 or PRKAA2) both by inducing phosphorylation and preventing dephosphorylation of catalytic subunits. ADP also stimulates phosphorylation, without stimulating already phosphorylated catalytic subunit. ATP promotes dephosphorylation of catalytic subunit, rendering the AMPK enzyme inactive. Aliases: 5 AMP activated protein kinase subunit gamma 3 antibody, 5''-AMP-activated protein kinase subunit gamma-3 antibody, AAKG3_HUMAN antibody, AMPK gamma 3 chain antibody, AMPK gamma3 antibody, AMPK subunit gamma-3 antibody, AMPKG3 antibody, PRKAG3 antibody, Protein kinase AMP activated gamma 3 non catalytic subunit antibody
UniProt:	Q9UGI9
Pathways:	AMPK Signaling, Cellular Glucan Metabolic Process, Warburg Effect

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:2000,
Restrictions:	For Research Use only

Handling

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



Western Blotting

Image 1. Western blot All lanes: 5-AMP-activated protein kinase subunit gamma-3 antibody at 5 µg/mL Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 55, 52 kDa Observed band size: 55 kDa