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Datasheet for ABIN655798

anti-PRKAG1 antibody (N-Term)

3 Images

Overview

Quantity:	400 µL
Target:	PRKAG1
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAG1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This PRKAG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PRKAG1.
Clone:	RB31402
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PRKAG1
Alternative Name:	PRKAG1 (PRKAG1 Products)
Background:	The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase

Target Details

(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 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. This subunit is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

Molecular Weight: 37579

Gene ID: 5571

NCBI Accession: [NP_001193638](#), [NP_001193639](#), [NP_002724](#)

UniProt: [P54619](#)

Pathways: [AMPK Signaling](#), [Regulation of Carbohydrate Metabolic Process](#), [Warburg Effect](#)

Application Details

Application Notes: WB: 1:1000. WB: 1:1000. WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

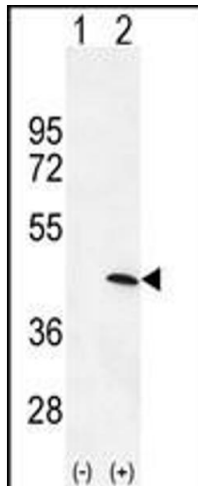
Preservative: Sodium azide

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

Storage: 4 °C, -20 °C

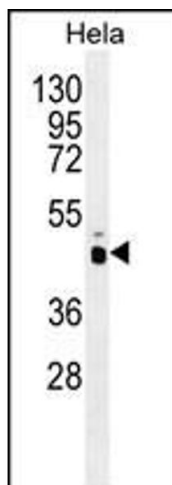
Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months



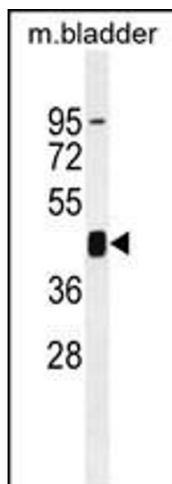
Western Blotting

Image 1. Western blot analysis of PRKAG1 (arrow) using rabbit polyclonal PRKAG1 Antibody (N-term) (ABIN655798 and ABIN2845227). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRKAG1 gene.



Western Blotting

Image 2. PRKAG1 Antibody (N-term) (ABIN655798 and ABIN2845227) western blot analysis in HeLa cell line lysates (35 µg/lane). This demonstrates the PRKAG1 antibody detected the PRKAG1 protein (arrow).



Western Blotting

Image 3. PRKAG1 Antibody (N-term) (ABIN655798 and ABIN2845227) western blot analysis in mouse bladder tissue lysates (35 µg/lane). This demonstrates the PRKAG1 antibody detected the PRKAG1 protein (arrow).