

Datasheet for ABIN5533705
anti-PRKAG3 antibody (AA 265-295)

3 Images

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Overview

Quantity:	400 µL
Target:	PRKAG3
Binding Specificity:	AA 265-295
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAG3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This AMPK gamma (PRKAG1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 265-295 amino acids from the Central region of human AMPK gamma (PRKAG1).
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis

Target Details

Target:	PRKAG3
Alternative Name:	AMPK gamma (PRKAG3 Products)
Background:	PRKAG1 is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a

Target Details

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.

Molecular Weight: 38 kDa

Gene ID: 5571

UniProt: [P54619](#)

Pathways: [AMPK Signaling](#), [Cellular Glucan Metabolic Process](#), [Warburg Effect](#)

Application Details

Application Notes: For WB starting dilution is: 1:1000

For IHC-P starting dilution is: 1:50~100

Restrictions: For Research Use only

Handling

Format: Liquid

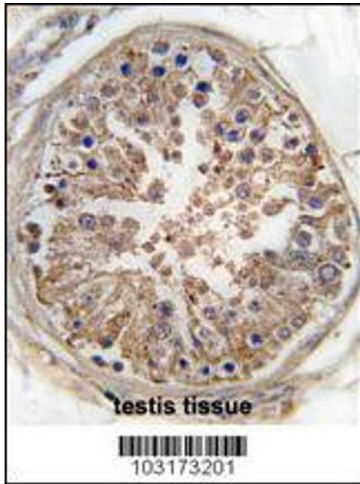
Buffer: Supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

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

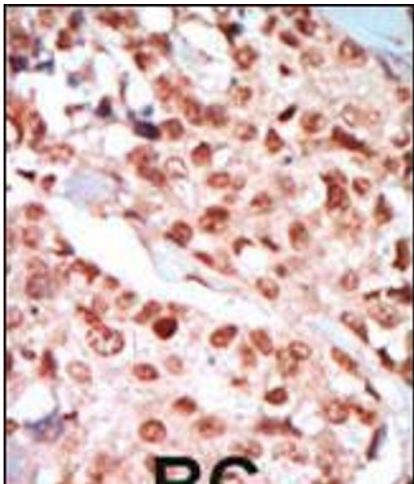
Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



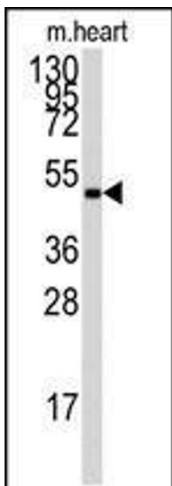
Immunohistochemistry

Image 1. Formalin-fixed and paraffin-embedded human testis tissue reacted with PRKAG1 Antibody , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. BC = breast carcinoma; HC = hepatocarcinoma.



Western Blotting

Image 3. Antibody is used in Western blot to detect PRKAG1 in mouse heart tissue lysate.