



Datasheet for ABIN391058
anti-PRKAA2 antibody (AA 265-295)



[Go to Product page](#)

3 Images

Overview

Quantity:	400 µL
Target:	PRKAA2
Binding Specificity:	AA 265-295
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
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).
Clone:	RB3173
Isotype:	Ig Fraction
Predicted Reactivity:	B, Pig
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PRKAA2
Alternative Name:	AMPK gamma (PRKAG1) (PRKAA2 Products)

Target Details

Background: PRKAG1 is a regulatory 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 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: 37579

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

UniProt: [P54619](#)

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

Application Details

Application Notes: WB: 1:1000. IHC-P: 1:50~100. IHC-P: 1:50~100

Restrictions: For Research Use only

Handling

Format: Liquid

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

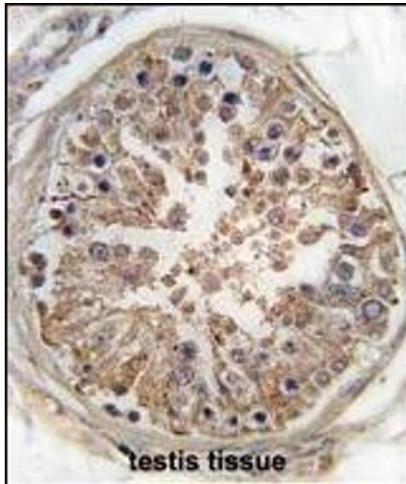
Preservative: Sodium azide

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

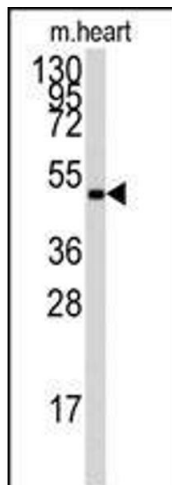
Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C.

Expiry Date: 6 months



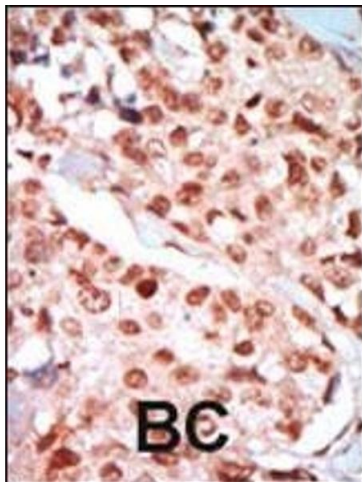
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human testis tissue reacted with PRKAG1 Antibody (Center) (ABIN391058 and ABIN2841214), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. The anti-PRKAG1 Pab (ABIN391058 and ABIN2841214) is used in Western blot to detect PRKAG1 in mouse heart tissue lysate.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. 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. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.