

Datasheet for ABIN652306

**anti-PRKAA1 antibody****3** Images[Go to Product page](#)

## Overview

Quantity:	400 µL
Target:	PRKAA1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

## Product Details

Immunogen:	This PRKAA1 antibody is generated from rabbits immunized with a recombinant protein from human PRKAA1.
Clone:	RB22943
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	PRKAA1
Alternative Name:	PRKAA1 ( <a href="#">PRKAA1 Products</a> )
Background:	PRKAA1 is a protein belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase. PRKAA1 is a cellular energy sensor conserved in all

## Target Details

eukaryotic cells. The kinase activity of PRKAA1 is activated by the stimuli that increase the cellular AMP/ATP ratio. PRKAA1 regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways.

Molecular Weight: 64009

Gene ID: 5562

NCBI Accession: [NP\\_006242](#), [NP\\_996790](#)

UniProt: [Q13131](#)

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

## Application Details

Application Notes: WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50

Restrictions: For Research Use only

## Handling

Format: Liquid

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

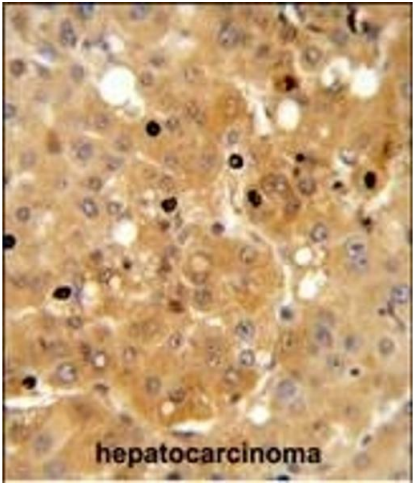
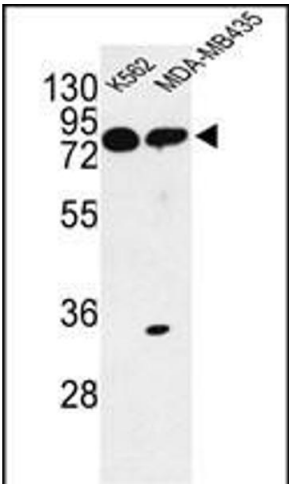
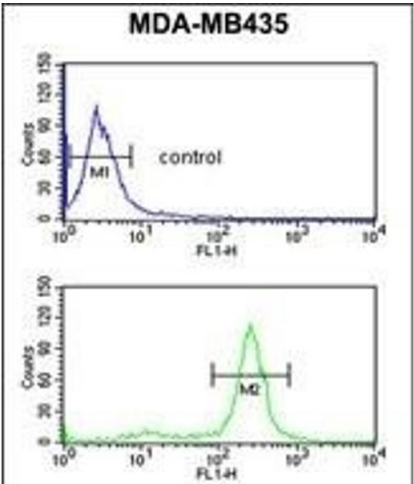
Preservative: Sodium azide

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



### Flow Cytometry

**Image 1.** PRK Antibody (ABIN652306 and ABIN2841396) flow cytometric analysis of MDA-M cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### Western Blotting

**Image 2.** Western blot analysis of PRK Antibody (ABIN652306 and ABIN2841396) in K562, MDA-M cell line lysates (35 µg/lane). PRK (arrow) was detected using the purified Pab.

### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** PRK Antibody (ABIN652306 and ABIN2841396) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PRK Antibody for immunohistochemistry. Clinical relevance has not been evaluated.