

Datasheet for ABIN654800  
**anti-PRKAA2 antibody (Thr172)**

3 Images



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## Overview

Quantity:	400 µL
Target:	PRKAA2
Binding Specificity:	AA 145-173, Thr172
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This PRKAA2 (Thr172) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 145-173 amino acids from the Central region of human PRKAA2 (Thr172).
Clone:	RB25835
Isotype:	Ig Fraction
Predicted Reactivity:	M, Pig, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	PRKAA2
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## Target Details

Alternative Name:	PRKAA2 ( <a href="#">PRKAA2 Products</a> )
Background:	The protein encoded by this gene is a catalytic 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. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia.
Molecular Weight:	62320
Gene ID:	5563
NCBI Accession:	<a href="#">NP_006243</a>
UniProt:	<a href="#">P54646</a>
Pathways:	<a href="#">AMPK Signaling</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Chromatin Binding</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Warburg Effect</a>

## Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50
Restrictions:	For Research Use only

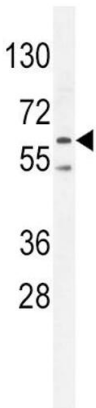
## Handling

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.



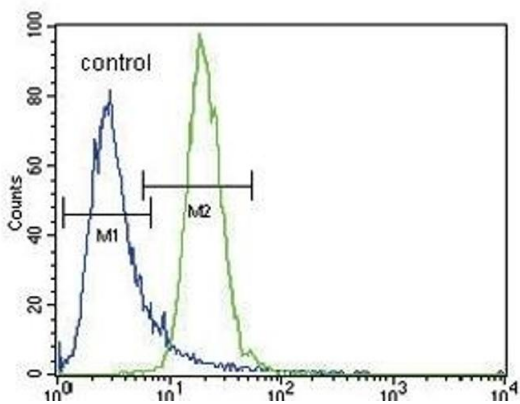
Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** PRK (Thr172) antibody (Center) (ABIN654800 and ABIN2844475) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PRK (Thr172) antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

**Image 2.** PRK (Thr172) Antibody (ABIN654800 and ABIN2844475) western blot analysis in K562 cell line lysates (35 µg/lane). This demonstrates the PRK antibody detected the PRK protein (arrow).



Flow Cytometry

**Image 3.** PRK (Thr172) Antibody (Center) (ABIN654800 and ABIN2844475) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.