



Datasheet for ABIN752374

## anti-PRKAA1/PRKAA2 antibody (pThr172, pThr183) (Cy7)



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### 1 Image

#### Overview

Quantity:	100 µL
Target:	PRKAA1/PRKAA2
Binding Specificity:	pThr172, pThr183
Reactivity:	Human, Mouse, Rat, Pig, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA1/PRKAA2 antibody is conjugated to Cy7
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Flow Cytometry (FACS), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

#### Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from mouse AMPK alpha 2 around the phosphorylation site of Thr172
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat, Sheep
Predicted Reactivity:	Dog,Cow,Horse,Chicken
Purification:	Purified by Protein A.

#### Target Details

Target:	PRKAA1/PRKAA2
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## Target Details

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Alternative Name:	AMPK alpha-1/2 ( <a href="#">PRKAA1/PRKAA2 Products</a> )
Background:	<p>Synonyms: PRKAA1phospho T172, AMPK alpha 1 + AMPK alpha 2 phospho T183/T172, 5 AMP activated protein kinase alpha 1catalytic subunit, 5 AMP activated protein kinase catalytic alpha 1 chain, 5' AMP activated protein kinase catalytic subunit alpha 1, AAPK1, acetyl CoA carboxylase kinase, AI194361, AI450832, AL024255, AMP -activate kinase alpha 1 subunit, AMP-activated protein kinase, catalytic, alpha -1, AMPK 1, AMPK alpha 1 chain, AMPK, AMPK1, AMPKa1, AMPKalpha1, C130083N04Rik, cb116, EC 2.7.11.1, HMG CoA reductase kinase,hormone sensitive lipase kinase, im:7154392, kinase AMPK alpha1, MGC33776, MGC57364, PRKAA 1, PRKAA1, Protein kinase AMP activated alpha 1 catalytic subunit, SNF1-like protein AMPK, wu:fa94C10.</p> <p>Background: The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK 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. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq].</p>
Gene ID:	5562

## Application Details

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Application Notes:	FCM 1:20-100 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

## Handling

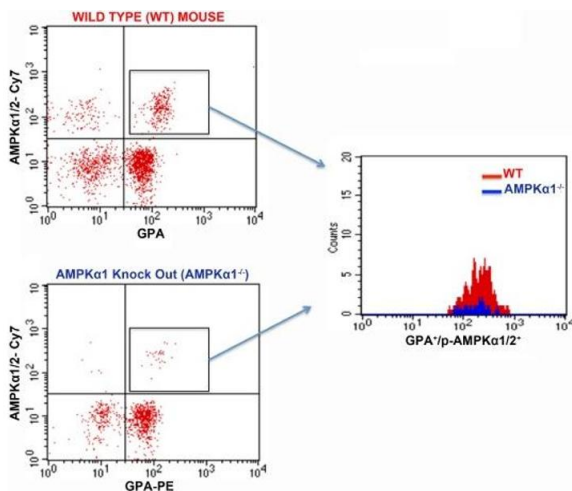
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

## Images



### Flow Cytometry

**Image 1.** FACS Analysis of Glycophorin A and phospho-AMPK alpha 1/2 (Thr172/183) in Red Blood Cells in WT and AMPK alpha 1 knockout mice using Rabbit Anti-GPA Polyclonal Antibody (bs-2575R-PE) and Rabbit anti-pAMPK alpha1/2 Thr172/183 (bs-4002R-Cy7). Image kindly submitted by Nasrul Hoda, PhD, Georgia Regents University