

**Product Name: AMPK $\gamma$ 1 Rabbit Polyclonal Antibody**  
**Catalog #: APRab06854**



## Summary

<b>Production Name</b>	AMPK $\gamma$ 1 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	PRKAG1
<b>Alternative Names</b>	PRKAG1; 5'-AMP-activated protein kinase subunit gamma-1; AMPK gamma1; AMPK subunit gamma-1; AMPKg
<b>Gene ID</b>	5571.0
<b>SwissProt ID</b>	P54619.The antiserum was produced against synthesized peptide derived from human PRKAG1. AA range:10-59

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000, ELISA 1:5000.Not yet tested in other applications.
<b>Molecular Weight</b>	38kDa

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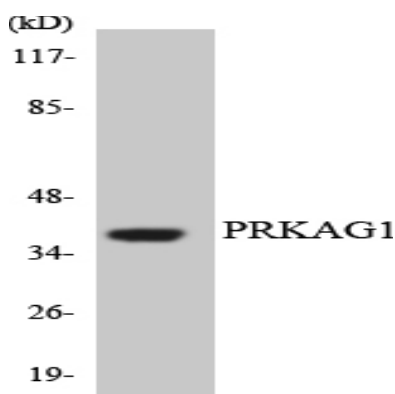
## Background

The protein encoded by this gene 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. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008],function:AMPK is responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. Also regulates cholesterol synthesis via phosphorylation and inactivation of hydroxymethylglutaryl-CoA reductase and hormone-sensitive lipase. This is a regulatory subunit.,similarity:Belongs to the 5'-AMP-activated protein kinase gamma subunit family.,similarity:Contains 4 CBS domains.,subunit:Heterotrimer of an alpha catalytic subunit, a beta and a gamma non-catalytic regulatory subunits. Interacts with FNIP1 and FNIP2.,

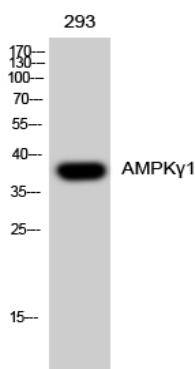
## Research Area

Insulin Receptor; AMPK

## Image Data



Western blot analysis of the lysates from HT-29 cells using PRKAG1 antibody.



Western Blot analysis of 293 cells using AMPKy1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and

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Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .

**Note**

For research use only.