

For Research Use Only

# AMPK Gamma 1 Monoclonal antibody, PBS Only



Catalog Number: 67182-1-PBS

Featured Product

## Basic Information

**Catalog Number:**

67182-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG28907

**GenBank Accession Number:**

BC000358

**GeneID (NCBI):**

5571

**UNIPROT ID:**

P54619

**Full Name:**

protein kinase, AMP-activated, gamma 1 non-catalytic subunit

**Calculated MW:**

38 kDa

**Observed MW:**

36-38 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1E11D4

## Applications

**Tested Applications:**

WB, Indirect ELISA

**Species Specificity:**

Human, mouse, rat

## Background Information

Protein kinase, AMP-activated, gamma 1 non-catalytic subunit (PRKAG1, synonyms: AMPKG, MGC8666) is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of a catalytic subunit, and non-catalytic and 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 iAMP-activated protein kinase (AMPK) is a highly conserved heterotrimeric serine/threonine kinase widely characterised as a sensor of cellular energetic stress. AMPK is a heterotrimeric complex consisting of a catalytic  $\alpha$ -subunit and two regulatory subunits ( $\beta$  and  $\gamma$ ). 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. AMPK gamma 1 is one of the gamma regulatory subunits of AMPK.

## Storage

**Storage:**

Store at  $-80^{\circ}\text{C}$ .

**Storage Buffer:**

PBS Only

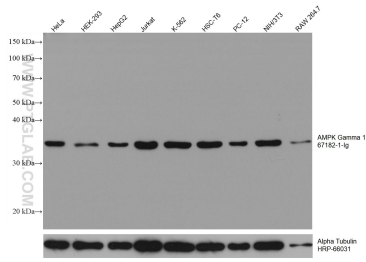
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

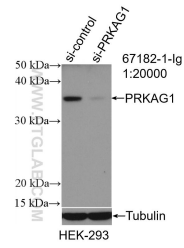
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67182-1-Ig (AMPK gamma 1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 67182-1-PBS in a different storage buffer formulation.



WB result of AMPK Gamma 1 antibody (67182-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK Gamma 1 transfected HEK-293 cells. This data was developed using the same antibody clone with 67182-1-PBS in a different storage buffer formulation.