

# Phospho-AMPK $\alpha$ 1-S485 Rabbit pAb

Catalog No.: AP0871 **12 Publications**

## Basic Information

### Observed MW

62kDa

### Calculated MW

64kDa

### Category

Primary antibody

### Applications

WB,ELISA

### Cross-Reactivity

Human, Mouse, Rat

## 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.

## Recommended Dilutions

**WB** 1:500 - 1:2000

**ELISA** Recommended starting concentration is 1  $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

5562

### Swiss Prot

Q13131

### Immunogen

A synthetic phosphorylated peptide around S485 of human PRKAA1 (NP\_006242.5).

### Synonyms

AMPK; AMPK $\alpha$ 1; AMPK alpha 1; Phospho-AMPK $\alpha$ 1-S485

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

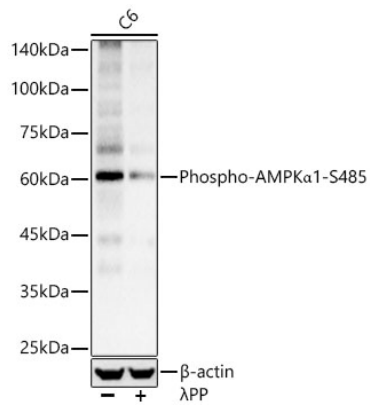
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

## Validation Data

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Western blot analysis of lysates from C6 cells using Phospho-AMPK $\alpha$ 1-S485 Rabbit pAb (AP0871) at 1:2000 dilution. C6 cells were treated by  $\lambda$ pp(20uL/400ul) at 37°C for 1 hour.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25  $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 3s.