

# Phospho-AMPK $\alpha$ 1-T183+AMPK $\alpha$ 2-T172 Rabbit mAb

Catalog No.: AP1441 **Recombinant**

## Basic Information

### Observed MW

62kDa

### Calculated MW

64kDa/65kDa/62kDa

### Category

Primary antibody

### Applications

ELISA, WB

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC62278

## 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 1:1000 - 1:5000

## Immunogen Information

### Gene ID

5562/5563

### Swiss Prot

Q13131/P54646

### Immunogen

A synthetic phosphorylated peptide around T183/T172 of human PRKAA1/PRKAA2 (NP\_006242.5/NP\_006243.2).

### Synonyms

AMPK $\alpha$ 1/AMPK $\alpha$ 2; Phospho-AMPK $\alpha$ 1-T183+AMPK $\alpha$ 2-T172

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

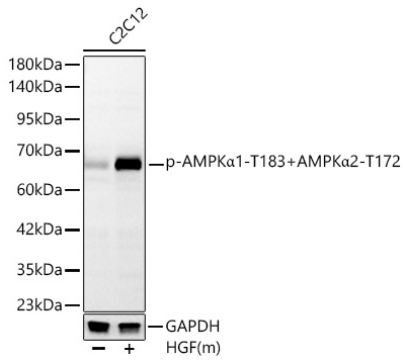
Affinity purification

### Storage

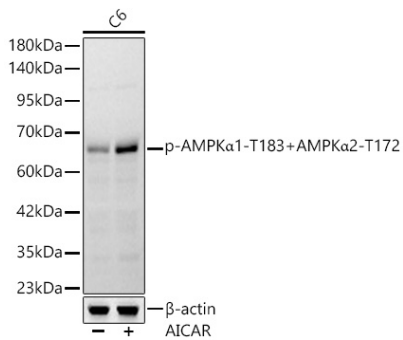
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of lysates from C2C12 cells, using Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 Rabbit mAb (AP1441) at 1:1000 dilution. C2C12 cells were treated by mHGF(50ng/uL).  
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: 30s.



Western blot analysis of lysates from C6 cells, using Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 Rabbit mAb (AP1441) at 1:1000 dilution. C6 cells were treated by AICAR (0.5 mM) at 37°C for 30 minutes after serum-starvation overnight.  
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: 30s.