

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

Catalog No.: AP1441   **Recombinant**   **9 Publications**

## Basic Information

### Observed MW

62kDa/

### Calculated MW

64kDa/65kDa/62kDa

### Category

Primary antibody

### Applications

WB,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### Clone/No. 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

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

## Immunogen Information

### Gene ID

5562/5563

### Swiss Prot

Q13131/P54646

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

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

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

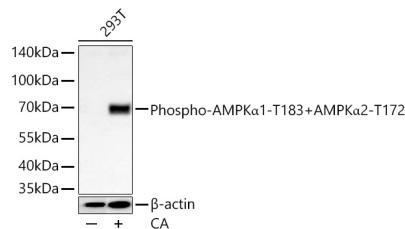
Affinity purification

### Storage

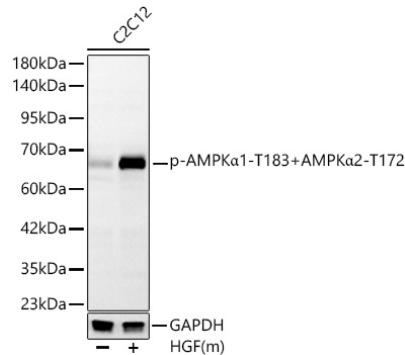
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

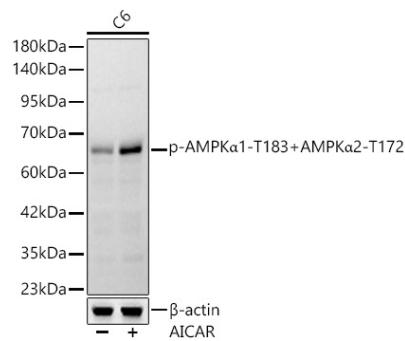
## Validation Data



Western blot analysis of lysates from 293T cells using Phospho-AMPK $\alpha$ 1-T183+AMPK $\alpha$ 2-T172 Rabbit mAb (AP1441) at 1:1000 dilution incubated overnight at 4°C. 293T cells were treated with CA (100 nM) 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: 30  $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



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 with 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 with 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.