

# Phospho-AMPK $\alpha$ 1-S496 Rabbit mAb

Catalog No.: AP1002   **Recombinant**   **32 Publications**

## Basic Information

### Observed MW

64 kDa

### Calculated MW

64 kDa

### Category

Primary antibody

### Applications

WB, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### Clone/No. number

ARC1547

## 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

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

### Synonyms

AMPK; AMPK $\alpha$ 1; AMPK alpha 1; Phospho-AMPK $\alpha$ 1-S496

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

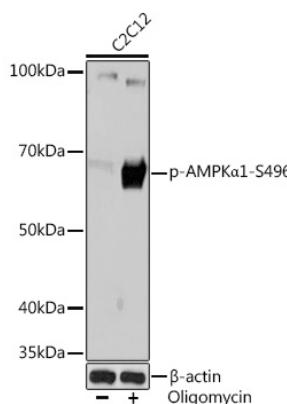
### Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data

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Western blot analysis of lysates from C2C12 cells, using Phospho-AMPK $\alpha$ 1-S496 Rabbit mAb (AP1002) at 1:1000 dilution. C2C12 cells were treated with oligomycin (0.5  $\mu$ M) at 37°C for 30 minutes. 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% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 3min.