

Phospho-AMPK α 1-S496 Rabbit mAb

Catalog No.: AP1002 **Recombinant** **35 Publications**

Basic Information

Observed MW

64 kDa

Calculated MW

64 kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo 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 μ 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 α 1; AMPK alpha 1; Phospho-AMPK α 1-S496

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

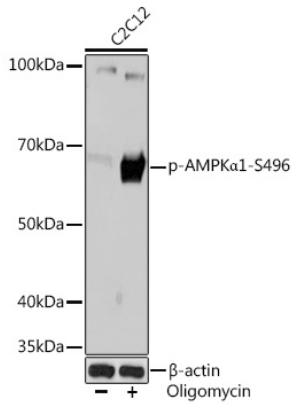
Affinity purification

Storage

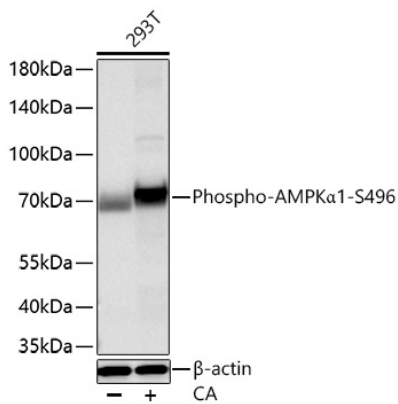
Store at -20°C. Avoid freeze / thaw cycles.

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.

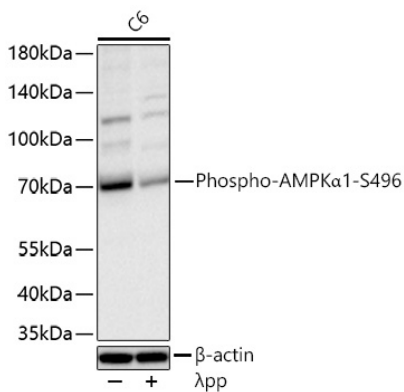
Validation Data



Western blot analysis of lysates from C2C12 cells, using Phospho-AMPK α 1-S496 Rabbit mAb (AP1002) at 1:1000 dilution. C2C12 cells were treated with oligomycin (0.5 μ 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 μ g per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 3min.



Western blot analysis of various lysates using Phospho-AMPK α 1-S496 Rabbit mAb (AP1002) at 1:1000 dilution incubated overnight at 4°C. 293T cells treated with CA (100 nM) at 37°C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30 s.



Western blot analysis of various lysates using Phospho-AMPK α 1-S496 Rabbit mAb (AP1002) at 1:1000 dilution incubated overnight at 4°C. C6 cells were treated with λ pp (2 U/ μ L) at 30°C for 1 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 45 s.