

Phospho-AMPKa1-T183 + AMPKa2-T172 Rabbit mAb

Catalog No.: AP1345 **Recombinant** **2 Publications**

Basic Information

Observed MW

62kDa

Calculated MW

64kDa/65kDa/62kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Mouse

CloneNo number

ARC53386

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 - 1:1000

ELISA Recommended starting concentration is 1 µg/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

AMPKa1/AMPKa2; Phospho-AMPKa1-T183 + AMPKa2-T172

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

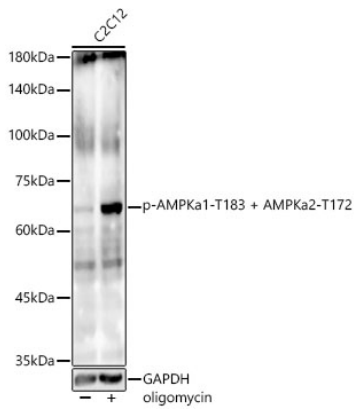
Affinity purification

Storage

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

Buffer: PBS 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-AMPKa1-T183 + AMPKa2-T172 Rabbit mAb (AP1345) 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% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.