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Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb

Catalog No.: AP0432 **11 Publications**

Basic Information

Observed MW
64kDa

Calculated MW
64kDa/65kDa/62kDa

Category
Primary antibody

Applications
ELISA,WB

Cross-Reactivity
Human, Mouse, Rat

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

Immunogen Information

Gene ID
5562/5563

Swiss Prot
Q13131/P54646

Immunogen
A synthetic phosphorylated peptide around T183 of human PRKAA1 (NP_006242.5).

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

Contact

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Product Information

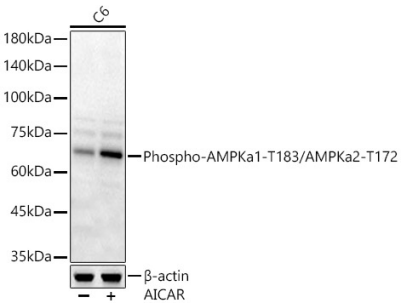
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from C6 cells, using Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb (AP0432) at 1:1000 dilution. C6 cells were treated by AICAR (0.5 mM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.