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Phospho-AMPKα1-T183+AMPKα2-T172 Rabbit mAb

Catalog No.: AP1441 Recombinant 6 Publications

Basic Information

Observed MW
62kDa/

Calculated MW
64kDa/65kDa/62kDa

Category
Primary antibody

Applications
WB,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo 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 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-AMPKα1-T183+AMPKα2-T172

Contact

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Product Information

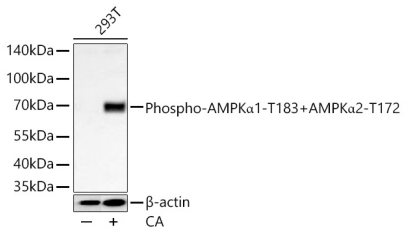
Source
Rabbit

Isotype
IgG

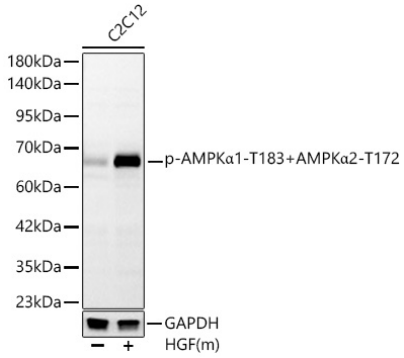
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

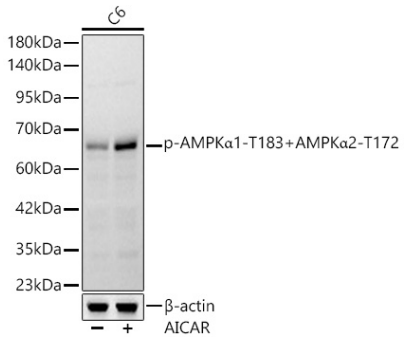
Validation Data



Western blot analysis of lysates from 293T cells using Phospho-AMPKα1-T183+AMPKα2-T172 Rabbit mAb (AP1441) at 1:1000 dilution incubated overnight at 4℃. 293T cells were treated with CA (100 nM) 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: 30 µg 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-AMPKα1-T183+AMPKα2-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: 25µg 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-AMPKα1-T183+AMPKα2-T172 Rabbit mAb (AP1441) at 1:1000 dilution. C6 cells were treated with 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: 30s.