Leader in Biomolecular Solutions for Life Science

www.abclonal.com

Phospho-AMPKα1-S485 Rabbit mAb

Catalog No.: AP1608 Recombinant

Basic Information

Observed MW
62 kDa

Calculated MW
64 kDa/66 kDa

Category
Primary antibody

Applications
WB,IF/ICC,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC80828

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	1:4000 - 1:16000
IF/ICC	1:100 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
5562

Swiss Prot
Q13131

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

Synonyms
AMPK; AMPKa1; AMPK alpha 1; Phospho-AMPKα1-S485

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.

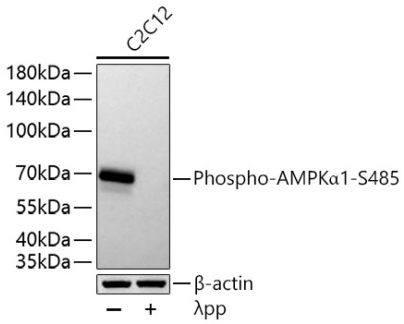
Contact

400-999-6126

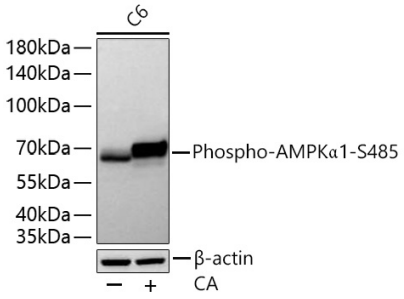
cn.market@abclonal.com.cn

www.abclonal.com.cn

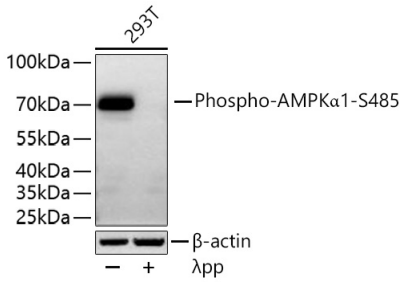
Validation Data



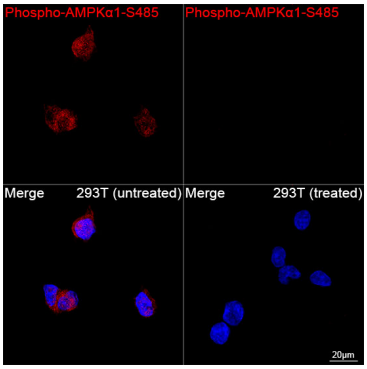
Western blot analysis of lysates from C2C12 cells using Phospho-AMPKα1-S485 Rabbit mAb (AP1608) at 1:8000 dilution incubated overnight at 4℃. C2C12 cells were treated with λpp (2 U/μL) at 30℃ for 1 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



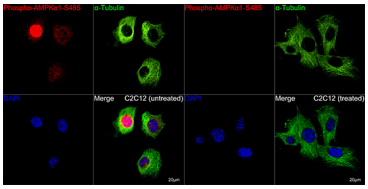
Western blot analysis of various lysates using Phospho-AMPKα1-S485 Rabbit mAb (AP1608) at 1:8000 dilution incubated overnight at 4℃. C6 cells were treated with CA (100 nM) at 37℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



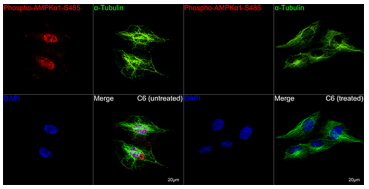
Western blot analysis of lysates from 293T cells using Phospho-AMPKα1-S485 Rabbit mAb (AP1608) at 1:8000 dilution incubated overnight at 4℃. 293T cells were treated with λpp (2 U/μL) at 30℃ for 1 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



Confocal imaging of 293T cells (untreated) and 293T cells (treated with λpp) using Phospho-AMPKα1-S485 Rabbit mAb (AP1608, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500)



Confocal imaging of C2C12 cells (untreated) and C2C12 cells (treated with λpp) using Phospho-AMPKα1-S485 Rabbit mAb (AP1608, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500)



Confocal imaging of C6 cells (untreated) and C6 cells (treated with λpp) using Phospho-AMPKα1-S485 Rabbit mAb (AP1608, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were

Validation Data

(Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

(Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.