

Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb

Catalog No.: AP0432 **19 Publications**

Basic Information

Observed MW

64kDa

Calculated MW

64kDa/65kDa/62kDa

Category

Primary antibody

Applications

WB,IHC-P,ELISA

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**IHC-P** 1:200 - 1:800**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

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

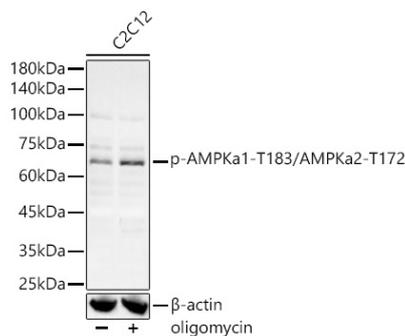
Affinity purification

Storage

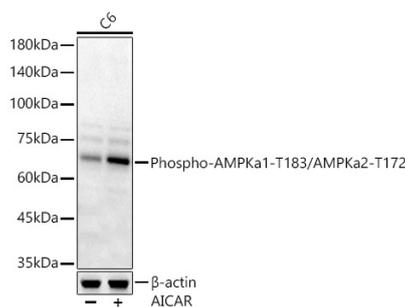
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

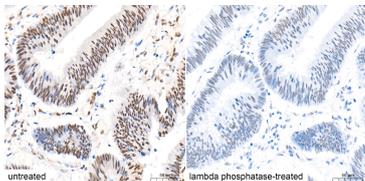
Validation Data



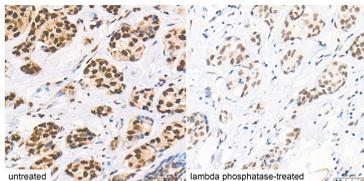
Western blot analysis of lysates from C2C12 cells, using Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb (AP0432) at 1:400 dilution. C2C12 cells were treated with oligomycin (0.5 μ M) at 37°C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



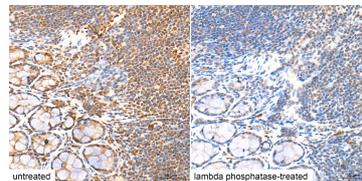
Western blot analysis of lysates from C6 cells, using Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb (AP0432) at 1:1000 dilution. C6 cells were treated with AICAR (0.5 mM) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000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



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb (AP0432) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

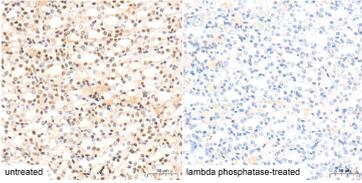


Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb (AP0432) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb (AP0432) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-AMPKa1-T183/AMPKa2-T172 Rabbit pAb (AP0432) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.