

# Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 Rabbit pAb

Catalog No.: AP0116 **41 Publications**

## Basic Information

### Observed MW

64 kDa/62 kDa

### Calculated MW

64 kDa/65 kDa

### Category

Primary antibody

### Applications

WB, IP, IHC-P, ELISA

### Cross-Reactivity

Human, Mouse, Rat

## Background

## Recommended Dilutions

**WB** 1:500 - 1:5000

**IP** 0.5 $\mu$ g-4 $\mu$ g antibody for  
200 $\mu$ g-400 $\mu$ g extracts of  
whole cells

**IHC-P** 1:50 - 1:100

**ELISA** Recommended starting  
concentration is 1  $\mu$ g/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Contact

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## Immunogen Information

### Gene ID

5562/5563

### Swiss Prot

Q13131/P54646

### Immunogen

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

### Synonyms

AMPK $\alpha$ 1/AMPK $\alpha$ 2; Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

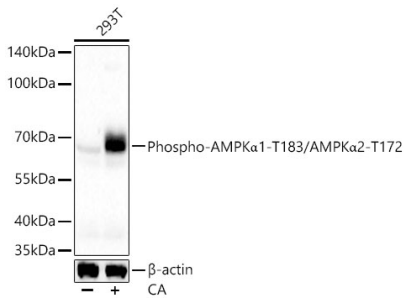
Affinity purification

### Storage

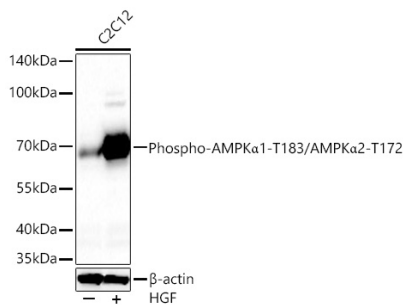
Store at -20°C. Avoid freeze / thaw cycles.

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

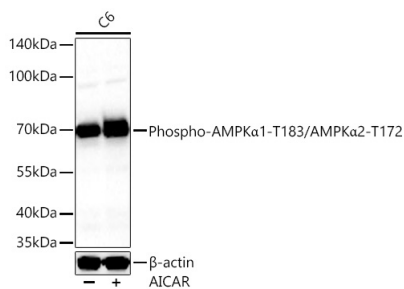
## Validation Data



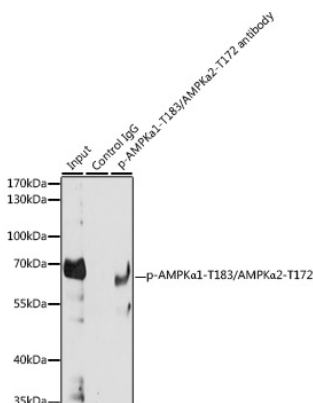
Western blot analysis of lysates from 293T cells using Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 Rabbit pAb (AP0116) at 1:1000 dilution incubated overnight at 4°C. 293T cells were treated with Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 30  $\mu$ g per lane.  
 Blocking buffer: 3 % nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 90s.



Western blot analysis of lysates from C2C12 cells using Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 Rabbit pAb (AP0116) at 1:1000 dilution incubated overnight at 4°C. C2C12 cells were treated with HGF (50 ng/ml) 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: 30  $\mu$ g per lane.  
 Blocking buffer: 3 % nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 90s.



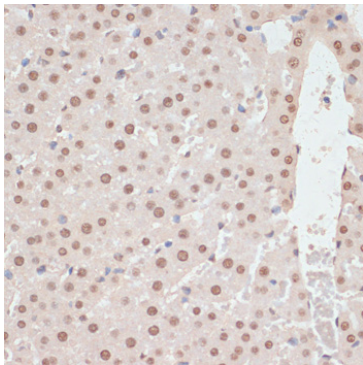
Western blot analysis of lysates from C6 cells using Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 Rabbit pAb (AP0116) at 1:1000 dilution incubated overnight at 4°C. C6 cells were treated with AICAR (0.5 mM) at 37°C for 4 hours after serum-starvation overnight.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 30  $\mu$ g per lane.  
 Blocking buffer: 3 % nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 90s.



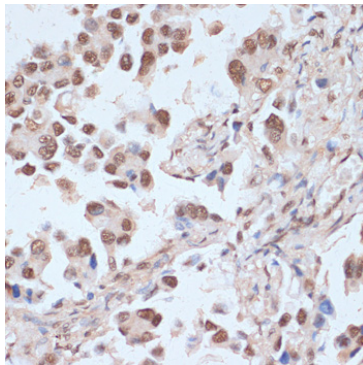
Immunoprecipitation analysis of 200  $\mu$ g extracts of C2C12 cells, using 3  $\mu$ g Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 pAb (AP0116). Western blot was performed from the immunoprecipitate using Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 pAb (AP0116) at a dilution of 1:1000. C2C12 cells were treated with oligomycin (0.5  $\mu$ M) at 37°C for 30 minutes.

## Validation Data

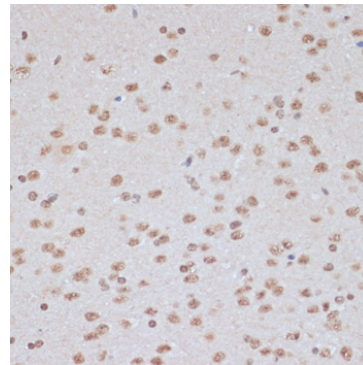
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Immunohistochemistry analysis of paraffin-embedded Rat liver using Phospho-AMPKα1-T183/AMPKα2-T172 Rabbit pAb (AP0116) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using Phospho-AMPKα1-T183/AMPKα2-T172 Rabbit pAb (AP0116) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain using Phospho-AMPKα1-T183/AMPKα2-T172 Rabbit pAb (AP0116) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.