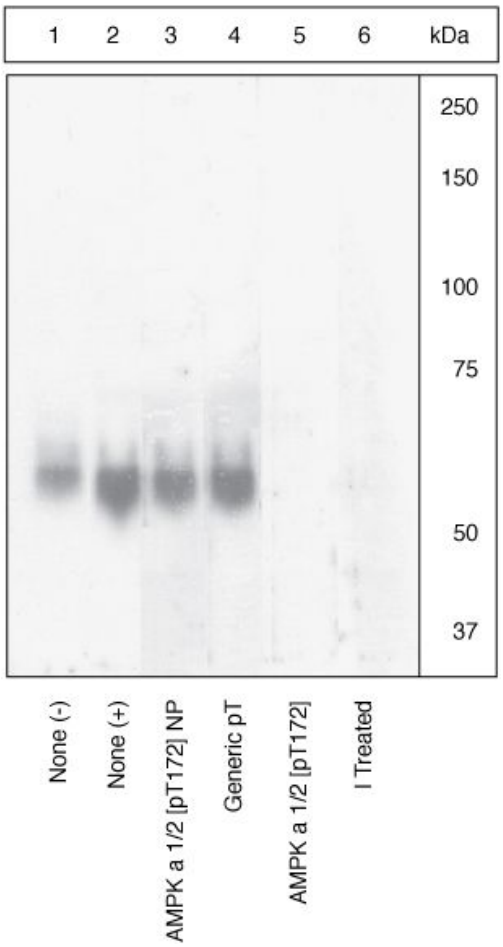
Phospho-AMPK alpha-1,2 (Thr183, Thr172) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human AMPK alpha 1 that contains threonine 183 and AMPK alpha 2 that contains threonine 172. The sequence is conserved in human, mouse and rat.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA, 50% glycerol
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2533585

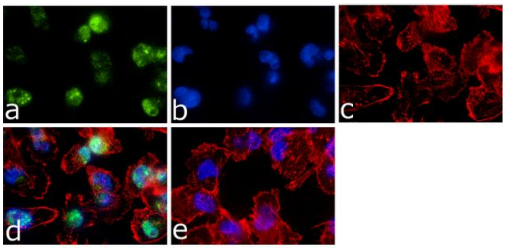
Applications	Tested	Dilution	Published
Western Blot (WB)	✓	1:1000	1 Publication
Immunocytochemistry (ICC)	✓	1:250	
Immunofluorescence (IF)	✓	1:250	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:10-1:50	

Advanced Verification Data

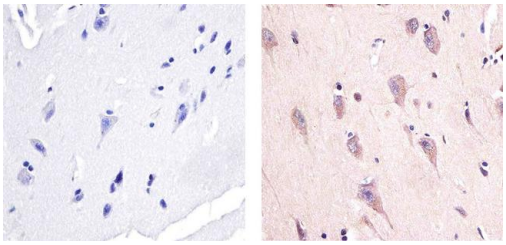


Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (44-1150G)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot analysis of Phospho-AMPK alpha-1,2 (Thr183, Thr172) using Phospho-AMPK alpha-1,2 (Thr183, Thr172) Rabbit Polyclonal Antibody (Product # 44-1150G) shows induction of phosphorylation of AMPK alpha-1,2 (Thr183, Thr172) in HepG2 cell line upon treatment with Metformin. Cell Treatment validation info.

Product Images For Phospho-AMPK alpha-1,2 (Thr183, Thr172) Polyclonal Antibody



Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (44-1150G) in IF
Immunofluorescence analysis of Phospho-AMPK alpha 1,2 (Thr183, Thr172) was done on 70% confluent log phase MDA-MB-231 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Phospho-AMPK alpha-1,2 (Thr183, Thr172) Rabbit Polyclonal Antibody (Product # 44-1150G) at 1:250 dilution in 1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing Nuclear localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (44-1150G) in IHC (P)
Immunohistochemistry analysis of Phospho-AMPK alpha 1,2 (Thr183, Thr172) showing staining in the cytoplasm of paraffin-embedded human brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Phospho-AMPK alpha-1,2 (Thr183, Thr172) Rabbit Polyclonal Antibody (Product # 44-1150G) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

View more figures on thermofisher.com

1 Reference

Western Blot (1)

Frontiers in cellular and infection microbiology

Impaired Cellular Energy Metabolism Contributes to Duck-Enteritis-Virus-Induced Autophagy via the AMPK-TSC2-MTOR Signaling Pathway.

"Published figure using Phospho-AMPK alpha-1,2 (Thr172) polyclonal antibody (Product # 44-1150G) in Western Blot"

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Species
Not Applicable

Dilution
Not Cited

Year
2018