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

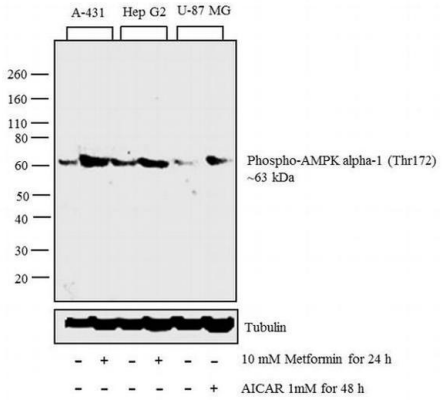
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Pig, Sheep, Plant, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic phosphopeptides corresponding to residues surrounding Thr183 of human AMPKa 1 and Thr172 of AMPKa 2
Form	Liquid
Concentration	83 µg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 50% glycerol, 100µg/mL BSA
Contains	no preservative
Storage conditions	-20°C
RRID	AB_10983715

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	11 Publications

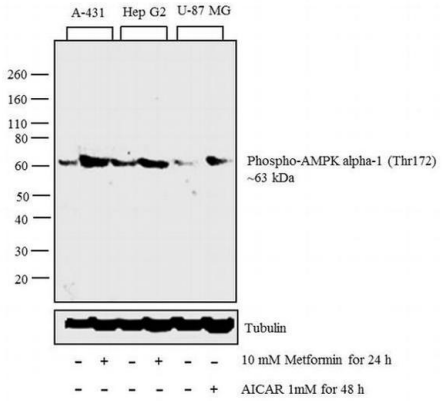
Product Specific Information

It is not recommended to aliquot this antibody.

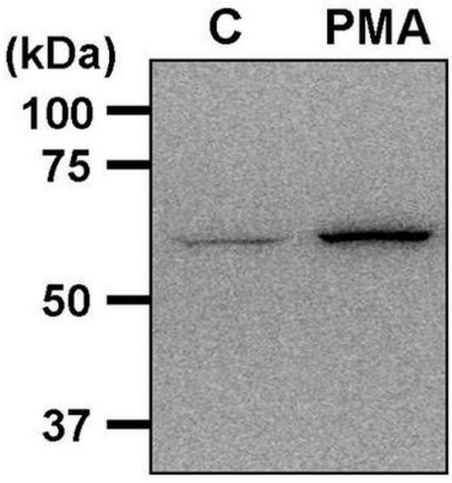
Product Images For Phospho-AMPK alpha-1,2 (Thr183, Thr172) Polyclonal Antibody



Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (PA5-17831)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Phospho-AMPK alpha-1,2 (Thr183, Thr172) antibody (Product # PA5-17831) shows increased expression of proteins phosphorylated at the threonine residues in A-431 and Hep G2 treated with Metformin and U-87 MG treated upon with AICAR treatment. {TM}



Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (PA5-17831) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of A-431 (Lane 1), A-431 treated with Metformin (10mM for 24 h) (Lane 2), Hep G2 (Lane 3), Hep G2 treated with Metformin (10mM for 24 h) (Lane 4), U-87 MG (Lane 5), and U-87 MG treated with AICAR (1mM for 48 h) (Lane 6). The blot was probed with Phospho-AMPK alpha-1,2 (Thr183, Thr172) Monoclonal Antibody (Product # PA5-17831, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 63 kDa band corresponding to Phospho-AMPK alpha-1 (Thr172) was observed across the cell lines tested and enhanced upon treatment.



Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (PA5-17831) in WB
Western blot analysis of Phospho-AMPK-alpha 1,2 (Thr183, Thr172) was performed by loading 30 µg of THP-1 cell lysates from cells either treated with a vehicle control (C, left lane) or with 100 nM PMA (right lane) for 15 minutes, onto an SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% non-fat dry milk in TBST for 1 hour at room temperature. The membrane was probed with a Phospho-AMPK alpha-1,2 (Thr183, Thr172) polyclonal antibody (Product # PA5-17831) at a dilution of 1:1000 for overnight at 4°C, washed in TBST, and probed with an HRP-conjugated goat anti-rabbit IgG at a dilution of 1:40,000 for 1 hour at room temperature. Detection was performed using ECL substrate. Data courtesy of the Innovators Program.

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11 References

Western Blot (11)

PeerJ

The combination of lactoferrin and linolenic acid inhibits colorectal tumor growth through activating AMPK/JNK-related apoptosis pathway.

"PA5-17831 was used in Western Blot to investigate if lactoferrin + linolenic acid combination inhibites HT29 tumor formation by activating the AMPK/JNK related pathway."

Authors: Yao Q,Li H,Fan L,Huang S,Wang J,Zheng N

Year
2021

Species
Human
Mouse

Cancer & metabolism

SIRT6 enhances oxidative phosphorylation in breast cancer and promotes mammary tumorigenesis in mice.

"Published figure using Phospho-AMPK alpha-1,2 (Thr183, Thr172) polyclonal antibody (Product # PA5-17831) in Western Blot"

Authors: Becherini P,Caffa I,Piacente F,Damonte P,Vellone VG,Passalacqua M,Benzi A,Bonfiglio T,Reverberi D,Khalifa A,Ghanem M,Guijarro A,Tagliafico L,Sucameli M,Persia A,Monacelli F,Cea M,Bruzzone S,Ravera S,Nencioni A

Year
2021

Species
Mouse

Dilution
1:1000

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