

Phospho-AMPK alpha-1,2 (Thr183, Thr172) Recombinant Rabbit Monoclonal Antibody (10H2L20)

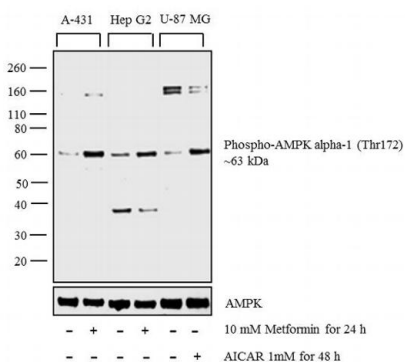
Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotope	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	10H2L20
Conjugate	Unconjugated
Immunogen	Phosphopeptide corresponding to amino acids 168–178 of human AMPK alpha
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532369

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	5 µg/mL	
Immunofluorescence (IF)	✓	5 µg/mL	
Western Blot (WB)	✓	2 µg/mL	

Product Specific Information

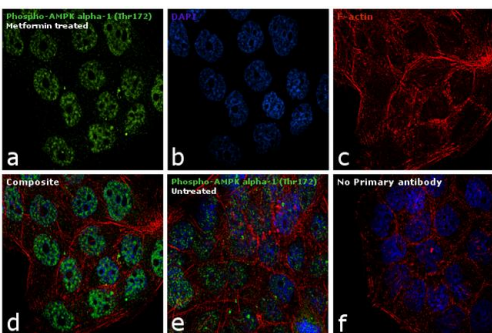
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.



Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (701068)

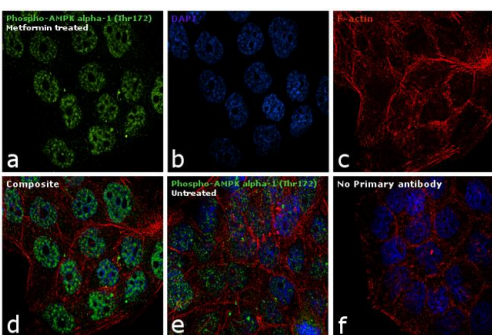
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Phospho-AMPK alpha-1,2 (Thr183, Thr172) antibody (Product # 701068) shows increased expression of proteins phosphorylated at the threonine residues in A-431 and Hep G2 treated with Metformin and U-87 MG treated upon with AICAR treatment. Cell Treatment validation info.



Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (701068)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Phospho-AMPK alpha-1,2 (Thr183, Thr172) using Phospho-AMPK alpha-1,2 (Thr183, Thr172) Recombinant Rabbit Monoclonal Antibody (Product # 701068) shows induction of AMPK alpha-1 phosphorylation at Thr172 residue in A-431 cell line upon Metformin treatment. Cell Treatment validation info.

Product Images For Phospho-AMPK alpha-1,2 (Thr183, Thr172) Recombinant Rabbit Monoclonal Antibody (10H2L20)



Phospho-AMPK alpha-1,2 (Thr183, Thr172) Antibody (701068) in IF

Immunofluorescence analysis of Phospho-AMPK alpha-1,2 (Thr183, Thr172) was performed using 90% confluent log phase A-431 cells treated with 1mmol/mL Metformin for 24 hours. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Phospho-AMPK alpha-1,2 (Thr183, Thr172) Recombinant Rabbit Monoclonal Antibody (Product # 701068) at 5µg/mL in 0.1% BSA and incubated overnight at 4 degree 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 represents the merged image showing nuclear localization. Panel e shows untreated cells with reduced nuclear signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.