Anti-Phospho-AMPK alpha 1 (Ser496) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011713

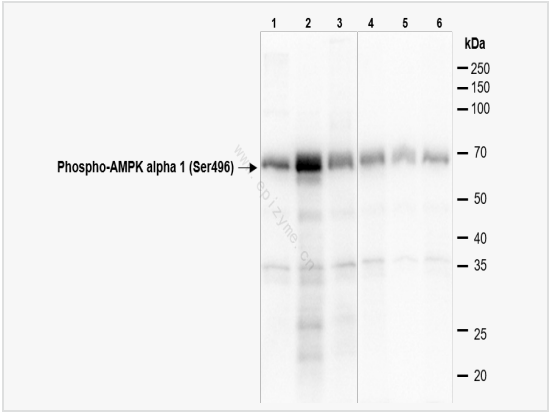
Product Information

Application	IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA, WB
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	25M45K61
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Ser496 of human AMPK alpha 1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-AMPK alpha 1 (Ser496) Rabbit mAb [25M45K61] is for research use only and not for use in diagnostic or therapeutic procedures.

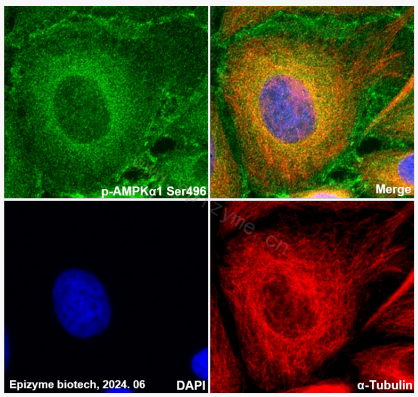
Protein Information

Synonyms	PRKAA1, AMPK1, 5'-AMP-activated protein kinase catalytic subunit alpha-1, AMPK subunit alpha-1, Acetyl-CoA carboxylase kinase, ACACA kinase, Hydroxymethylglutaryl-CoA reductase kinase, HMGCR kinase, Tau-protein kinase PRKAA1.
Calculated MW	Calculated MW: 64 kDa; Observed MW: 64 kDa
Uniprot ID	Q13131
Gene ID	5562
Background	AMPKA1 a protein kinase of the CAMKL family that plays a central role in regulating cellular and organismal energy balance in response to the balance between AMP/ATP, and intracellular Ca(2+) levels.

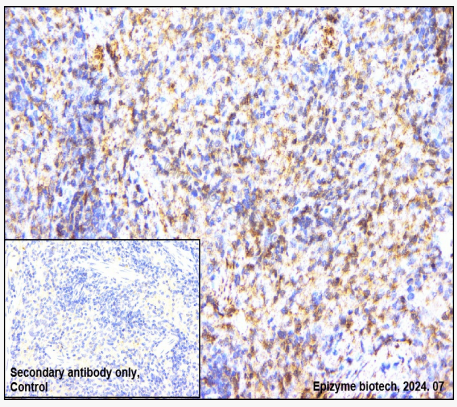
Validation Images



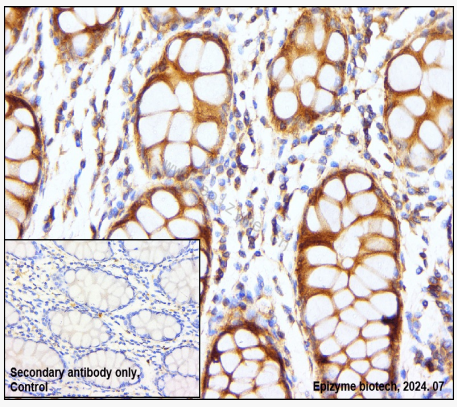
Western Blot - Anti-Phospho-AMPK alpha 1 (Ser496) Rabbit mAb [25M45K61]
All lanes: R011713 at 1:1,000 dilution
Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Jurkat (human T lymphocytic leukemia cell) whole cell lysates
Lane 3: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: 293T (human embryonic kidney cell) whole cell lysates
Lane 6: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 64 kDa
Observed band size: 64 kDa
Developed using the ECL technique (Cat. No. SQ201).



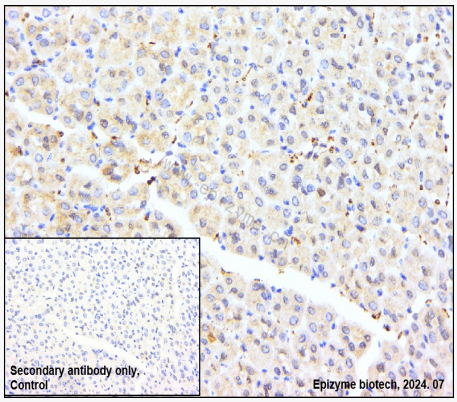
Immunofluorescence - Anti-Phospho-AMPK alpha 1 (Ser496) Rabbit mAb [25M45K61]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R011713 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Phospho-AMPK alpha 1 (Ser496) Rabbit mAb [25M45K61]
Sample: Paraformaldehyde-fixed, paraffin embedded rat spleen tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011713 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-AMPK alpha 1 (Ser496) Rabbit mAb [25M45K61]
Sample: Paraformaldehyde-fixed, paraffin embedded human colorectal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011713 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-AMPK alpha 1 (Ser496) Rabbit mAb [25M45K61]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse stomach tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011713 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.