

Phospho-AMPK alpha 1 (S496) Rabbit mAb

Catalog No: #13409



Package Size: #13409-1 50ul #13409-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

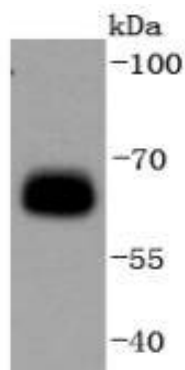
Description

Product Name	Phospho-AMPK alpha 1 (S496) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SD0810
Purification	ProA affinity purified
Applications	WB, ICC/IF, IP
Species Reactivity	Hu
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser496 of human AMPK alpha 1.
Other Names	5 AMP activated protein kinase alpha 1 catalytic subunit antibody 5 AMP activated protein kinase catalytic alpha 1 chain antibody 5' AMP activated protein kinase catalytic subunit alpha 1 antibody 5'-AMP-activated protein kinase catalytic subunit alpha-1 antibody AAPK1 antibody AAPK1_HUMAN antibody ACACA kinase antibody acetyl CoA carboxylase kinase antibody AI194361 antibody AI450832 antibody AL024255 antibody AMP -activate kinase alpha 1 subunit antibody AMP-activated protein kinase, catalytic, alpha -1 antibody AMPK 1 antibody AMPK alpha 1 antibody AMPK alpha 1 chain antibody AMPK antibody AMPK subunit alpha-1 antibody AMPK1 antibody AMPKa1 antibody AMPKalpha1 antibody C130083N04Rik antibody cb116 antibody EC 2.7.11.1 antibody HMG CoA reductase kinase antibody HMGCR kinase antibody hormone sensitive lipase kinase antibody Hydroxymethylglutaryl CoA reductase kinase antibody im:7154392 antibody kinase AMPK alpha1 antibody MGC33776 antibody MGC57364 antibody OTTHUMP00000161795 antibody OTTHUMP00000161796 antibody PRKAA 1 antibody PRKAA1 antibody Protein kinase AMP activated alpha 1 catalytic subunit antibody SNF1-like protein AMPK antibody SNF1A antibody Tau protein kinase PRKAA1 antibody wu:fa94c10 antibody
Accession No.	Swiss-Prot#:Q13131
Uniprot	Q13131
GeneID	5562;
Calculated MW	64 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

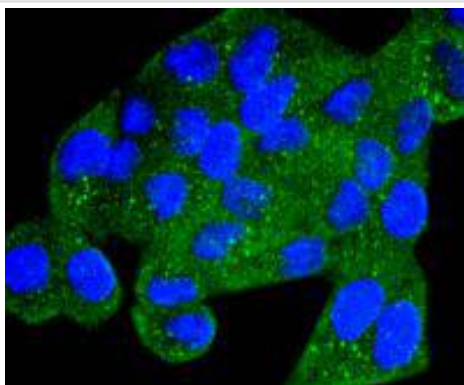
Application Details

WB: 1:1,000-5,000 ICC: 1:50-1:200

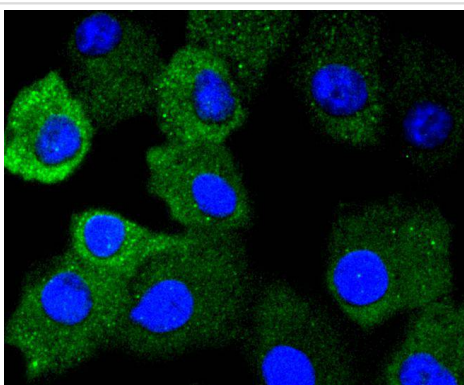
Images



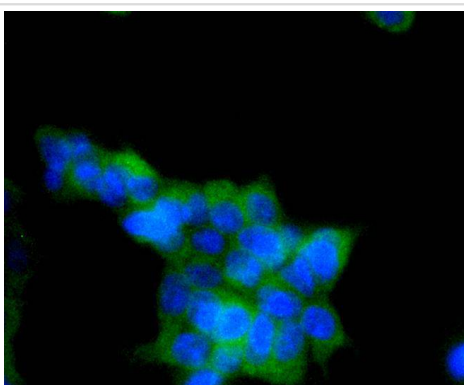
Western blot analysis of Phospho-AMPK alpha 1(S496) on 293T cells lysates using anti-Phospho-AMPK alpha 1(S496) antibody at 1/1,000 dilution.



ICC staining Phospho-AMPK alpha 1(S496) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-AMPK alpha 1(S496) in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-AMPK alpha 1(S496) in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

AMPK (5'-AMP-activated protein kinase) is a heterotrimeric complex comprising a catalytic α subunit and regulatory β and γ subunits. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming bio-synthetic pathways. AMPK is activated by high AMP and low ATP through a mechanism involving allosteric regulation, promotion of phosphorylation by an upstream protein kinase known as AMPK kinase, and inhibition of dephosphorylation. Activated AMPK can phosphorylate and regulate in vivo hydroxy-methylglutaryl-CoA reductase and acetyl-CoA carboxylase, which are key regulatory enzymes of sterol synthesis and fatty acid synthesis, respectively. AMPK α 1 (5'-AMP-activated protein kinase catalytic subunit alpha-1), also known as PRKAA1, is a 559 amino acid protein that belongs to the CAMK Ser/Thr protein kinase family and protein kinase superfamily. Highly phosphorylated, AMPK α 1 exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 5p13.1.

References

Note: This product is for in vitro research use only