

AMPK alpha 1 (Phospho-S496) Rabbit mAb

Catalog No: #13409

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

Description

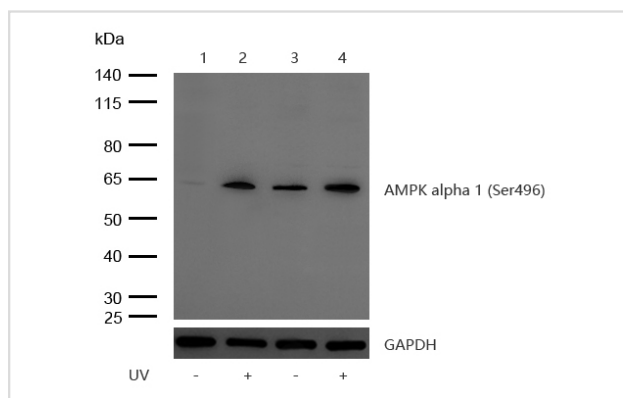
Product Name	AMPK alpha 1 (Phospho-S496) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SD0810
Purification	ProA affinity purified
Applications	WB, ICC/IF
Species Reactivity	Hu
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser496 of human AMPK alpha 1.
Conjugates	Unconjugated
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
Calculated MW	Predicted band size: 64 kDa
SDS-PAGE MW	Observed band size: 64 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

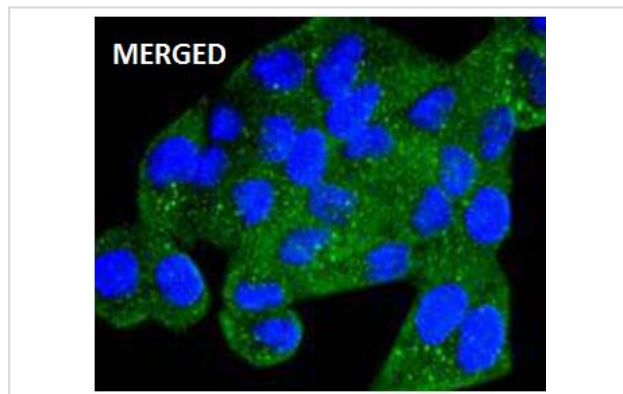
WB: 1:500-1:2000

ICC/IF: 1:50-1:200

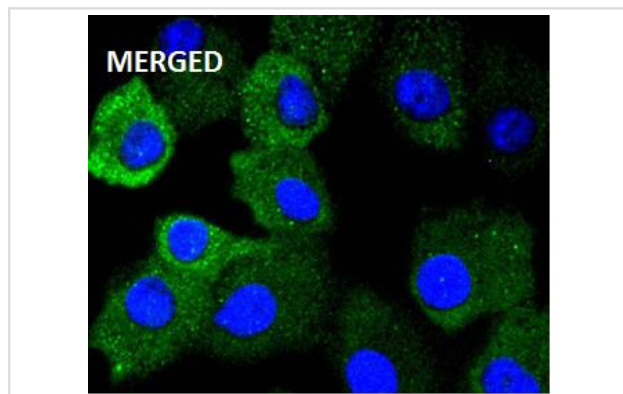
Images



All lanes : AMPK alpha 1 (Phospho-Ser496) Rabbit mAb at 1/1k dilution
 Lane 1 : HeLa whole cell lysates
 Lane 2 : HeLa treated with UV for 15min whole cell lysates
 Lane 3 : HUVEC whole cell lysates
 Lane 4 : HUVEC treated with UV for 15min whole cell lysates
 Lysates/proteins at 20 µg per lane.
 Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
 Predicted band size: 64 kDa
 Observed band size: 64 kDa
 Exposure time: 4 seconds



Immunocytochemistry/ Immunofluorescence AMPK alpha 1 (Phospho-S496) antibody (13409)
 ICC/IF staining of AMPK alpha 1 (Phospho-S496) in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 13409 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500. Nuclei were counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence AMPK alpha 1 (Phospho-S496) antibody (13409)
 ICC/IF staining of AMPK alpha 1 (Phospho-S496) in A549 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 13409 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500. Nuclei were counterstained with DAPI.

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 and is not intended for use in humans or animals.