

Rabbit AMPKalpha1 Polyclonal Antibody | anti-AMPKalpha1 antibody

AMPKalpha1 Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282320	Rabbit	Human, Mouse, Rat	Immunocytochemistry, Immunofluorescence

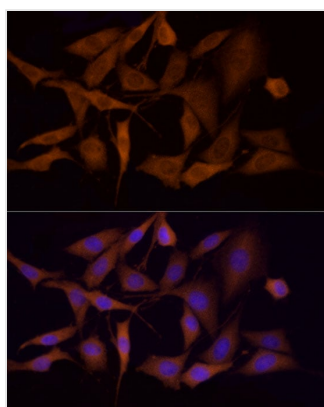
PRODUCT SYNONYMS

AMPKalpha1; Polyclonal Antibody; AMPKalpha1 Rabbit pAb; PRKAA1; AMPK; AMPKa1; protein kinase AMP-activated catalytic subunit alpha 1; anti-AMPKalpha1 antibody

PRODUCT SPECIFICATIONS

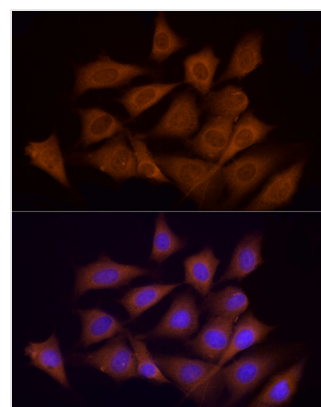
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Sequence	GSDQSENVDR GAGSIREAGG AFGKREQAEE ERYFRAQSRE QLAALKKHHE EEIVHHKKEI ERLQKEIERH KQKIKMLKHD D
Applicable Applications for anti-AMPKalpha1 antibody	ICC (Immunocytochemistry), IF (Immunofluorescence)
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 450-559 of human AMPKalpha1 (NP_006242.5).
Cellular Location	Cytoplasm, Nucleus
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



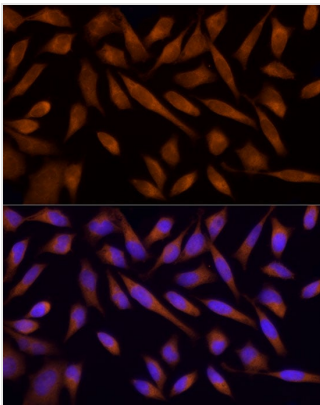
IF (Immunofluorescence)

Immunofluorescence analysis of PC-12 cells using AMPKalpha1 Rabbit pAb at dilution of 1:150 (40x lens). Blue: DAPI for nuclear staining.



IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 cells using AMPKalpha1 Rabbit pAb at dilution of 1:150 (40x lens). Blue: DAPI for nuclear staining.



IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells using AMPKalpha1 Rabbit pAb at dilution of 1:150 (40x lens). Blue: DAPI for nuclear staining.

ADDITIONAL INFORMATION

Related Product Information for anti-AMPKalpha1 antibody	The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
Product Categories/Family for anti-AMPKalpha1 antibody	Epigenetics & Nuclear Signaling ; Translation Control ; Regulation of eIF4 and p70 S6 Kinase ; Cancer ; Signal Transduction ; Kinase ; Serine/threonine kinases ; PI3K-Akt Signaling Pathway ; mTOR Signaling Pathway ; Cell Biology & Developmental Biology ; Apoptosis ;

NCBI AND UNIPROT INFORMATION

NCBI GI #	12585262
NCBI GeneID	93974
UniProt Accession #	Q9UII2 ; Q5JXL8 ; Q6IAQ7 ; Q9BSL9
Molecular Weight	106
NCBI Official Full Name	ATPase inhibitor, mitochondrial
NCBI Official Synonym Full Names	ATPase inhibitory factor 1
NCBI Official Symbol	ATPIF1
NCBI Official Synonym Symbols	IP; ATPi; ATPIP
NCBI Protein Information	ATPase inhibitor, mitochondrial; IF1; ATPase inhibitor protein; inhibitor of F(1)F(o)-ATPase; ATP synthase inhibitor protein
UniProt Protein Name	ATPase inhibitor, mitochondrial
UniProt Gene Name	ATPIF1
UniProt Synonym Gene Names	ATPI; IF(1); IF1
UniProt Entry Name	ATIF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.