

Rabbit AMPK alpha2 Polyclonal Antibody | anti-AMPKalpha2 antibody

AMPK alpha2 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA179759	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

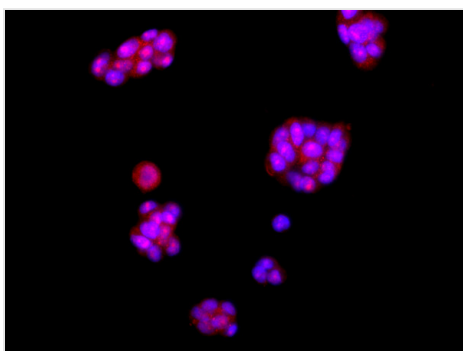
PRODUCT SYNONYMS

AMPK alpha2; Polyclonal Antibody; AMPK alpha2 Polyclonal Antibody; 5'-AMP-activated protein kinase catalytic subunit alpha-2; AAPK2; ACACA kinase; Acetyl-CoA carboxylase kinase; AMPK alpha 2 chain; AMPK subunit alpha-2; AMPK2; AMPKa2; AMPKalpha2; HMGR kinase; Hydroxymethylglutaryl-CoA reductase kinase; PRKAA; PRKAA2; Protein kinase AMP activated alpha 2 catalytic subunit; Protein kinase AMP activated catalytic subunit alpha 2; anti-AMPKalpha2 antibody

PRODUCT SPECIFICATIONS

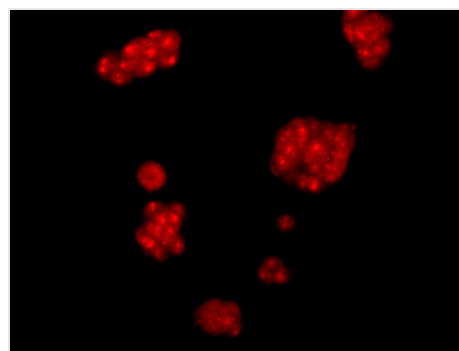
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purification
Form/Format	PBS with 0.02% sodium azide, 1% protective protein and 50% glycerol, pH 7.4
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-AMPKalpha2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant Rat Ampk2 protein expressed by E coli
Preparation and Storage	Store at -20 degree C Valid for 12 months. Avoid freeze/thaw cycles.

IMAGES



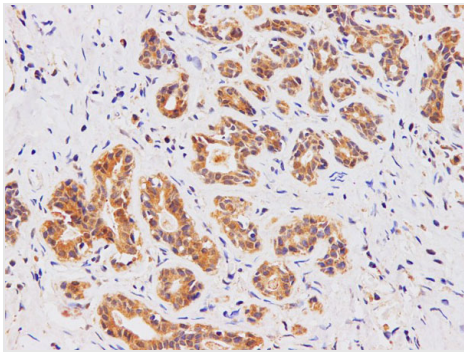
IF (Immunofluorescence)

Immunofluorescence analysis of MCF7 cells using AMPK alpha2 Polyclonal Antibody at dilution of 1:100



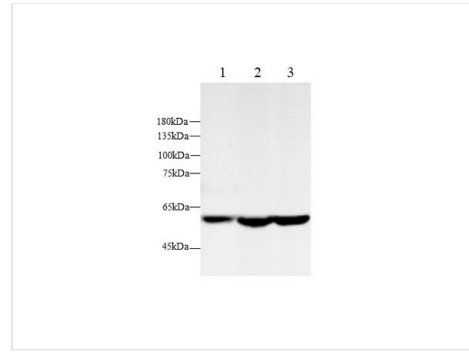
IF (Immunofluorescence)

Immunofluorescence analysis of MCF7 cells using AMPK alpha2 Polyclonal Antibody at dilution of 1:100



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human breast using AMPK alpha2 Polyclonal Antibody at dilution of 1:100



WB (Western Blot)

Western blot with Ampk2 Polyclonal antibody at dilution of 1:1000. lane 1: Hep G2 whole cell lysate, lane 2: HeLa whole cell lysate, lane 3: NIH/3T3 whole cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-AMPKalpha2 antibody

The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia.

Product Categories/Family for anti-AMPKalpha2 antibody

[Polyclonal Antibodies](#); [Primary Antibodies](#); [Polyclonal Antibodies](#); [Cancer](#); [Cardiovascular](#); [Metabolism](#); [Signal Transduction](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	13027454
NCBI GeneID	78975
NCBI Accession #	NP_076481.1
NCBI GenBank Nucleotide #	NM_023991.1
UniProt Accession #	Q09137
Molecular Weight	3,700 Da
NCBI Official Full Name	5'-AMP-activated protein kinase catalytic subunit alpha-2
NCBI Official Synonym Full Names	protein kinase, AMP-activated, alpha 2 catalytic subunit
NCBI Official Symbol	Prkaa2
NCBI Official Synonym Symbols	Ampk; Ampka2
NCBI Protein Information	5'-AMP-activated protein kinase catalytic subunit alpha-2
UniProt Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-2
UniProt Gene Name	Prkaa2
UniProt Synonym Gene Names	Ampk; Ampk2; AMPK subunit alpha-2; ACACA kinase; HMGCR kinase
UniProt Entry Name	AAPK2_RAT

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.