

Rabbit AMPK Polyclonal Antibody | anti-PRKAA2 antibody

Anti-AMPK Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254711	Rabbit	Human, Rat Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

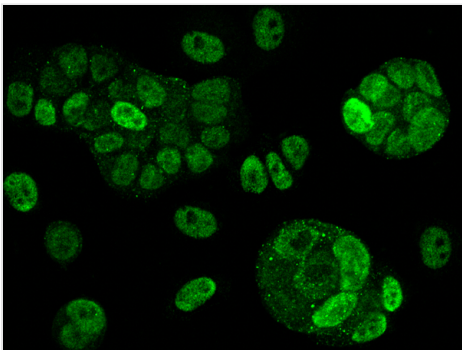
PRODUCT SYNONYMS

AMPK; Polyclonal Antibody; Anti-AMPK Antibody; Rabbit Polyclonal; PRKAA2/AMPK Antibody; Rabbit PAb; Antigen Affinity Purified; protein kinase; AMP-activated; alpha 2 catalytic subunit; Anti-AMPK2 Antibody; Anti-AMPKa2 Antibody; Anti-PRKAA Antibody; anti-PRKAA2 antibody

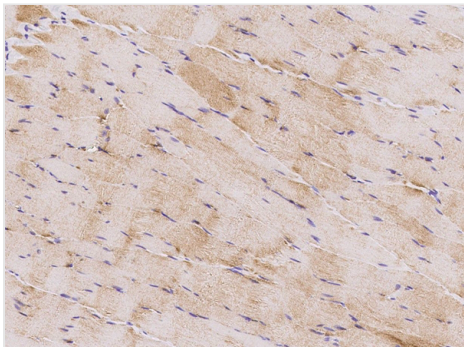
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human AMPK
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PRKAA2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human PRKAA2/AMPK
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human PRKAA2/AMPK, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

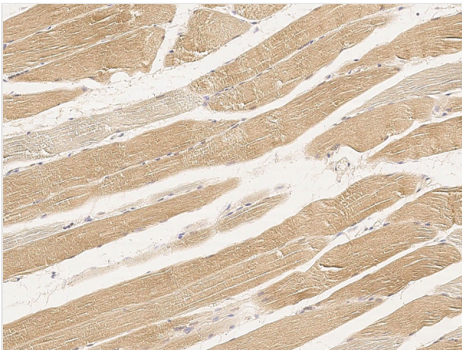
IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of PRKAA2 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human PRKAA2 polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to nucleus.



IHC (Immunohistochemistry)
Immunochemical staining PRKAA2 in rat skeletal muscle with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining PRKAA2 in human skeletal muscle with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAA2 antibody	PRKAA2, the gene that encodes the alpha2 catalytic subunit of AMPK, showed be involved in the glucose and lipid metabolism. The PRKAA2 genotypes of 406 T2DM patients and 214 controls from the Chinese Han population were determined with regard to SNPs rs10789038, rs2796498 and rs2746342. Polymorphisms in rs10789038 and rs2796498 are associated with the susceptibility to T2DM, and rs2796498 may be related to diabetic nephropathy.
Product Categories/Family for anti-PRKAA2 antibody	AMPK Signaling Pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	786491
NCBI GeneID	5563
UniProt Accession #	P54646; Q9H1E8; Q9UD43; AAB32732
Molecular Weight	62,320 Da
NCBI Official Full Name	AMP-activated protein kinase, AMPK
NCBI Official Synonym Full Names	protein kinase, AMP-activated, alpha 2 catalytic subunit
NCBI Official Symbol	PRKAA2
NCBI Official Synonym Symbols	AMPK; AMPK2; PRKAA; AMPKa2

NCBI Protein Information	5'-AMP-activated protein kinase catalytic subunit alpha-2; ACACA kinase; HMGCR kinase; AMPK-alpha-2 chain; AMPK subunit alpha-2; acetyl-CoA carboxylase kinase; hydroxymethylglutaryl-CoA reductase kinase; AMP-activated protein kinase alpha-2 subunit varian
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_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.

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