

AMPKα2 rabbit pAb

Cat No.:ES20835

For research use only

Overview

Product Name	AMPKα2 rabbit pAb	
Host species	Rabbit	
Applications	WB	
Species Cross-Reactivity	Human;Mouse;Rat	
Recommended dilutions	WB: 1:1000-2000	
Immunogen	Recombinant Protein of ΑΜΡΚα2	
Specificity	The antibody detects endogenous AMPKα2 protein	
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and	ł
	0.02% sodium azide.	
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.	
Protein Name	5'-AMP-activated protein kinase catalytic subunit	
	alpha-2	
Gene Name	PRKAA2	
Cellular localization	Cytoplasm . Nucleus . In response to stress,	
	recruited by p53/TP53 to specific promoters	
Purification	The antibody was affinity-purified from rabbit	
	antiserum by affinity-chromatography using	
	epitope-specific immunogen.	
Clonality	Polyclonal	
Concentration		
Observed band	62kD	
Human Gene ID	5563	
Human Swiss-Prot Number	P54646	
Alternative Names	PRKAA2; AMPK; AMPK2; 5'-AMP-activated protein	
	kinase catalytic subunit alpha-2; AMPK subunit	
	alpha-2; Acetyl-CoA carboxylase kinase; ACACA	
	kinase; Hydroxymethylglutaryl-CoA reductase	
	kinase; HMGCR kinase	
Background	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	



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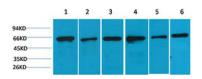
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energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), 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. [provided by RefSeq, Jul 2008],

Western blot analysis of 1) Hela, 2) 293T, 3) C2C12, 4) 3T3, 5) Rat Heart, 6) Rat Brain using AMPKα2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000





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