

Anti-AMPK alpha 1 Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	(predicted:Human,Mouse,Rat,Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 64 kDa.
Purification:	Protein A purified

Applications

Application:	ELISA
Recommended	ELISA: 1:5000-10000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human AMPK alpha-1
Antigen Species:	Human
Gene ID:	5562
Synonyms:	AMPK-a;AMPKa1;C130083N04Rik;SNF1-like protein AMPK;cb116;AMPK alpha-1;PRKAA 1;AMPK a1;AMPK alpha 1 chain;AMPK 1;AMPK;PRKAA1;AMP-activate kinase alpha 1 subunit;AMPK α 1;MGC57364;AMPK α 1;5 AMP activated protein kinase catalytic alpha 1 chain;AL024255;Protein kinase AMP activated alpha 1 catalytic subunit;A1194361;AMPK1;HMG CoA reductase kinase;5' AMP activated protein kinase catalytic subunit alpha 1;EC 2.7.11.1;AMPK α 1;AAPK1;A1450832;AMPKalpha1;acetyl CoA carboxylase kinase;AMP-activated protein kinase, catalytic, alpha-1;5 AMP activated protein kinase alpha 1 catalytic subunit;AMPK α 1;kinase AMPK alpha1;im:7154392;MGC33776;hormone sensitive lipase kinase;wu:fa94c10
Biology Area:	Integration of energy metabolism,Response to hypoxia,Metabolism,Integration of energy,Fatty acids,Hypoxia,Fatty acid oxidation,Cancer,Neurodegenerative disease,Amyloid,Other Kinases

Research Background

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. [provided by RefSeq, Jul 2008]

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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