

Product Name: AMPK alpha 1/2 Rabbit Monoclonal Antibody**Catalog #: AMRe87445**

For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IP
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% protective protein. Stable for 12 months from date of receipt.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IP 1:20-1:50
Molecular Weight	Calculated MW:64,62 kDa; Observed MW:62 kDa

Antigen Information

Gene Name	AMPK alpha 1/2
Alternative Names	AMPK; AMPK2; PRKAA; AMPKa2
Gene ID	5563
SwissProt ID	P54646
Immunogen	Recombinant protein of human AMPK alpha 2

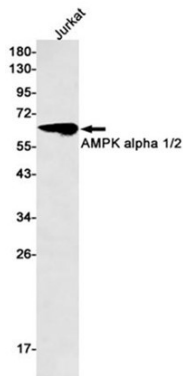
Background

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 energy-sensing

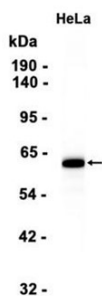
enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty 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]

Research Area

Image Data



Western blot detection of AMPK alpha 1/2 in Jurkat cell lysates using AMPK alpha 1/2 antibody(1:500 diluted).



Western blot analysis of extracts from HeLa cells using AMRe87445 at 1:1000.