

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 |

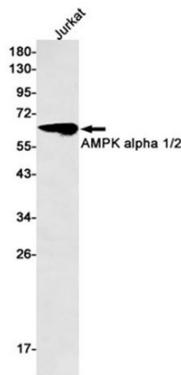
Background

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

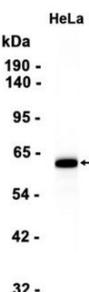
enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty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