



# AMPK $\alpha$ 1/2 rabbit pAb

Cat No.:ES1649

For research use only

## Overview

|                                 |  |
|---------------------------------|--|
| <b>Product Name</b>             | AMPK $\alpha$ 1/2 rabbit pAb   |
| <b>Host species</b>             | Rabbit   |
| <b>Applications</b>             | WB;IHC;IF;ELISA  |
| <b>Species Cross-Reactivity</b> | Human;Mouse;Rat;Monkey;Bovine  |
| <b>Recommended dilutions</b>    | WB 1:500-2000;IHC-p 1:100-500;IF/ICC 1:100-500;ELISA 1:5000-20000  |
| <b>Immunogen</b>                | The antiserum was produced against synthesized peptide derived from human AMPK alpha. AA range:140-189   |
| <b>Specificity</b>              | AMPK $\alpha$ 1/2 Polyclonal Antibody detects endogenous levels of AMPK $\alpha$ 1/2 protein.  |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Storage</b>                  | Store at -20°C . Avoid repeated freeze-thaw cycles.  |
| <b>Protein Name</b>             | 5'-AMP-activated protein kinase catalytic subunit alpha-1/2  |
| <b>Gene Name</b>                | AAPK1/AAPK2  |
| <b>Cellular localization</b>    | Cytoplasm . Nucleus . In response to stress, recruited by p53/TP53 to specific promoters. .  |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Clonality</b>                | Polyclonal   |
| <b>Concentration</b>            | 1 mg/ml  |
| <b>Observed band</b>            | 63kD   |
| <b>Human Gene ID</b>            | 5562/5563  |
| <b>Human Swiss-Prot Number</b>  | Q13131/P54646  |
| <b>Alternative Names</b>        | PRKAA1; AMPK1; 5'-AMP-activated protein kinase catalytic subunit alpha-1; AMPK subunit alpha-1; Acetyl-CoA carboxylase kinase; ACACA kinase; Hydroxymethylglutaryl-CoA reductase kinase; HMGR kinase; Tau-protein kinase PRKAA1; PRKAA2; AMPK; |





## 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],

