

AMPKα1 (phospho-Ser485) rabbit pAb

Cat No.: ES18372

For research use only

Overview

Product Name AMPKα1 (phospho-Ser485) rabbit pAb

Host species Rabbit WB **Applications**

Species Cross-Reactivity Human; Mouse; Rat **Recommended dilutions** WB 1:1000-2000

Immunogen Synthesized phosho peptide around human

AMPKα1 (Ser485)

This antibody detects endogenous levels of Specificity

Human Mouse Rat AMPKα1 (phospho-Ser485)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Store at -20°C. Avoid repeated freeze-thaw cycles. **Storage**

Protein Name AMPKα1 (Ser485) **Gene Name** PRKAA1 AMPK1

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 1 mg/ml Observed band 65kD **Human Gene ID** 5562 **Human Swiss-Prot Number** Q13131

Alternative Names 5'-AMP-activated protein kinase catalytic subunit

> alpha-1 (AMPK subunit alpha-1) (EC 2.7.11.1) (Acetyl-CoA carboxylase kinase) (ACACA kinase) (EC 2.7.11.27) (Hydroxymethylglutaryl-CoA reductase kinase) (HMGCR kinase) (EC 2.7.11.31) (Tau-protein

kinase PRK

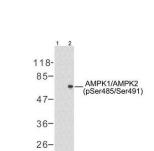
Background The protein encoded by this gene belongs to the

> ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein



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(kD)

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],

Western blot analysis of lysates from HeLa cells treated with heat shock, using AMPK1 (Phospho-Ser485)
Antibody. The lane on the right is blocked with the phospho peptide.

