



## AMPKα1 (phospho-Ser485) rabbit pAb

Catalog No         BYab-14583           Isotype         IgG           Reactivity         Human;Mouse;Rat           Applications         WB           Gene Name         PRKAA1 AMPK1           Protein Name         AMPKα1 (Ser485)           Immunogen         Synthesized phosho peptide around human AMPKα1 (Ser485)           Specificity         This antibody detects endogenous levels of Human Mouse Rat AMPKα1 (phospho-Ser485)           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Polyclonal, Rabbit,IgG           Purification         The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.           Dilution         WB 1:1000-2000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         5'-AMP-activated protein kinase catalytic subunit alpha-1 (AMPK subunit alpha-1) (EC 2.7.11.21) (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 PRKAA1) (EC 2.7.11.26)           Observed Band         65kD           Cell Pathway         Cytoplasm. Nucleus . In response to stress, recruited by p53/TP53 to specific promoters		
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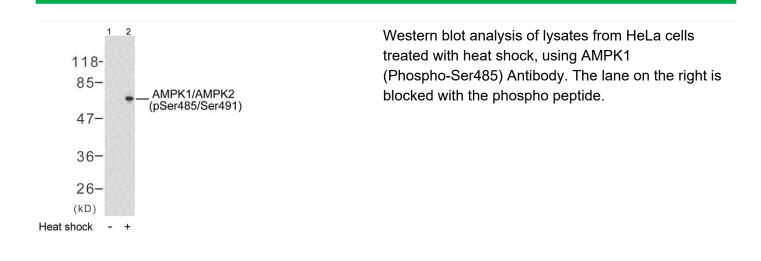


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	via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic s
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## **Products Images**



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