

AMPK α 1 (phospho-Ser485) rabbit pAb

Cat No.:ES18372

For research use only

Overview

Product Name	AMPK α 1 (phospho-Ser485) rabbit pAb
Host species	Rabbit
Applications	WB
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	WB 1:1000-2000
Immunogen	Synthesized phospho peptide around human AMPK α 1 (Ser485)
Specificity	This antibody detects endogenous levels of Human Mouse Rat AMPK α 1 (phospho-Ser485)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	AMPK α 1 (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





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.

