

# AMPK beta 1 Antibody

Rabbit mAb

Catalog # AP90902

## Product Information

<b>Application</b>	WB, FC
<b>Primary Accession</b>	<a href="#">Q9Y478</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	5''-AMP-activated protein kinase subunit beta-1; AMP-activated, noncatalytic, beta-1; AMPK; AMPK beta 1 chain; AMPK subunit beta-1; AMPK-BETA-1; AMPKb; HAMPKb; PRKAB1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	30382

## Additional Information

<b>Dilution</b>	WB 1:1000~1:2000 FC 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human AMPK beta 1
<b>Description</b>	AMP-activated protein kinase (AMPK) is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy homeostasis. AMPK is a heterotrimeric complex composed of a catalytic $\alpha$ subunit and regulatory $\beta$ and $\gamma$ subunits, each of which is encoded by two or three distinct genes ( $\alpha 1, 2$ ; $\beta 1, 2$ ; $\gamma 1, 2, 3$ ).
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

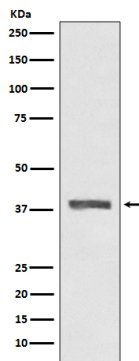
## Protein Information

<b>Name</b>	PRKAB1
<b>Synonyms</b>	AMPK
<b>Function</b>	Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-

terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3).

## Images

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Western blot analysis of AMPK beta 1 expression in HeLa cell lysate.

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