

## AMPK alpha 1 Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP14207
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	Recombinant Protein of AMPK $\alpha$ 1
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IHC-p, IF
<b>Concentration</b>	N/A
<b>Full name</b>	5'-AMP-activated protein kinase catalytic subunit alpha-1
<b>Synonyms</b>	5'-AMP-activated protein kinase catalytic subunit alpha-1; 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; HMGCR kinase; Tau-protein kinase PRKAA1

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### 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.

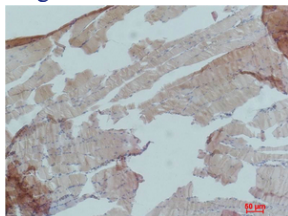
### Recommended Dilution

WB: 1: 500 - 1000

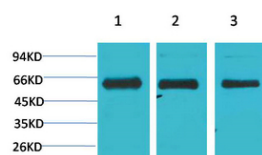
IHC: 1: 200 - 500

Not yet tested in other applications.

### Images



Immunohistochemical analysis of paraffin-embedded Mouse Skeletal Muscle Tissue using AMPK $\alpha$ 1 Polyclonal Antibody.



Western blot analysis of 1) HeLa, 2) 3T3, 3) PC12 using AMPK $\alpha$ 1 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

## Storage

-20°C for 1 year

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