#### **Product datasheet**

#### **Anti-AMPK Alpha 1/PRKAA1 Antibody**

Catalog Number: A00994-6



**BOSTER BIOLOGICAL TECHNOLOGY** 

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

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Basic Information	
Product Name	Anti-AMPK Alpha 1/PRKAA1 Antibody
Gene Name	PRKAA1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, monkey, mouse, rat
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS ,0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human AMPK alpha 1/PRKAA1 recombinant protein (Position: D359-P539).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	64KD
Dilution Ratios	Western blot(WB): 1:500-2000 ELISA: 1:100-1000 Flow Cytometry (FCM):1-3 μg/1x10 <sup>6</sup> cells

### **Storage**

12 months from date of receipt,  $-20^{\circ}$ C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

# **Background Information**

5'-AMP-activated protein kinase catalytic subunit alpha-1 is an enzyme that in humans is encoded by the PRKAA1 gene. 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.

## Reference

Anti-AMPK Alpha 1/PRKAA1 Antibody被引用在1文献中。

## **Selected Validation Data**

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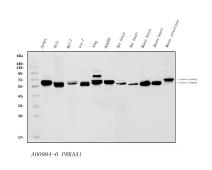


Figure 1. Western blot analysis of anti- PRKAA1 antibody (A00994-6). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Human Jurkat whole cell lysates, Lane 2: Human HELA whole cell lysates, Lane 3: Human MCF-7 whole cell lysates, Lane 4: Monkey COS-7 whole cell lysates, Lane 5: Human K562 whole cell lysates, Lane 6: Human HEK293 whole cell lysates, Lane 7: Rat brain tissue lysates, Lane 8: Rat heart tissue lysates, Lane 9: Mouse brain tissue lysates, Lane 10: Mouse heart tissue lysates, Lane 11: Mouse intestines tissue lysates. Use rabbit anti- PRKAA1 1:1000, probed with a goat antirabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for PRKAA1 at approximately 64KD. The expected band size for PRKAA1 is at 64KD.