Product datasheet

Anti-AMPK Alpha 1/PRKAA1 Antibody

Catalog Number: A00994-3



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, mouse, rat	
Tested Application	WB, ICC/IF, 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 recombinant protein (Position: F377-R446).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	64KD	
Dilution Ratios	Western blot(WB): (ELISA): Immunocytochemistry/Immunofluo Flow cytometry (FCM):	1:500-2000 1:100-1000 rescence (ICC/IF):1:50-400 1-3 µg/1x10 ⁶ cells

Storage

12 months from date of receipt, -20°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.

Selected Validation Data

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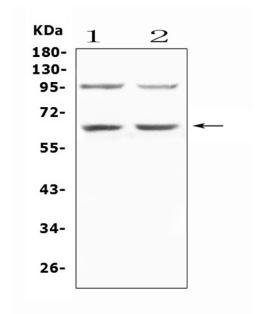


Figure 1. Western blot analysis of AMPK alpha 1 using anti-AMPK alpha 1 antibody (A00994-3). Lane 1: human PANC-1 whole cell lysates, Lane 2: human Jurkat whole cell lysates. anti-AMPK alpha 1 antigen affinity purified polyclonal antibody (Catalog # A00994-3)probed with a goat anti-rabbit IgG-HRP secondary antibody The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) . A specific band was detected for AMPK alpha 1 at approximately 64KD. The expected band size for AMPK alpha 1 is at 64KD.

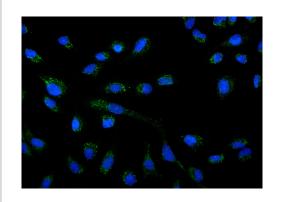


Figure 2. ICC analysis of anti- PRKAA1 antibody (A00994-3).was detected in immunocytochemical section of A549 cells. Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog?#?BA1127) and counterstained with DAPI (blue).

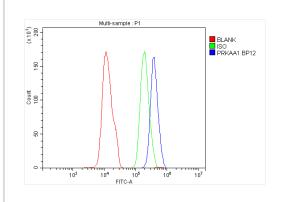


Figure 3. Flow cytometry analysis of SiHa cell(1x106) DyLight488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight488. Unlabelled sample (Red line).