

Basic Information

Product Name	Anti-AMPK Alpha 1/PRKAA1 Antibody (Clone#CDD-16)	
Gene Name	PRKAA1	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP, FCM	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human AMPK alpha 1	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	64 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:20
	Flow Cytometry (FCM):	1:20

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.

Reference

Anti-AMPK Alpha 1/PRKAA1 Antibody (Clone#CDD-16)被引用在9文献中。

Selected Validation Data

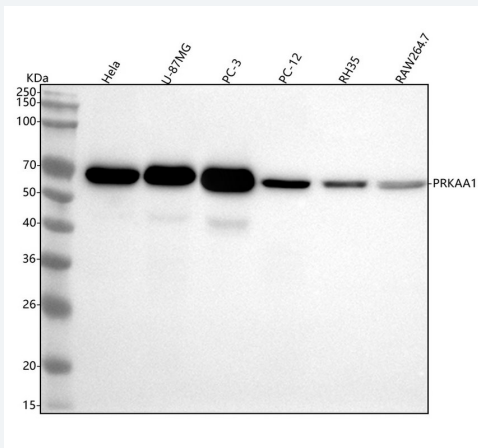


Figure 1. Western blot analysis of anti-AMPK Alpha 1/PRKAA1 antibody (BM4202). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,

Lane 2: human U-87 MG whole cell lysates,

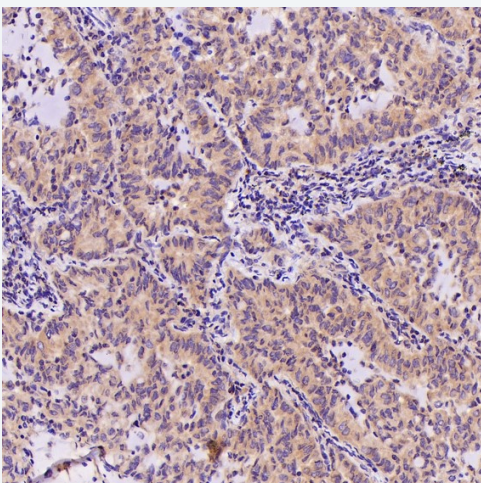
Lane 3: human PC-3 whole cell lysates,

Lane 4: rat PC-12 whole cell lysates,

Lane 5: rat RH-35 whole cell lysates,

Lane 6: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-AMPK Alpha 1/PRKAA1 antigen affinity purified monoclonal antibody (BM4202) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for AMPK Alpha 1/PRKAA1 at approximately 64 kDa. The expected band size for AMPK Alpha 1/PRKAA1 is at 64 kDa.



Immunohistochemical analysis of paraffin-embedded Human lung adenocarcinoma, using the Antibody.

Product datasheet

**Anti-AMPK Alpha 1/PRKAA1 Antibody
(Clone#CDD-16)**

Catalog Number: BM4202

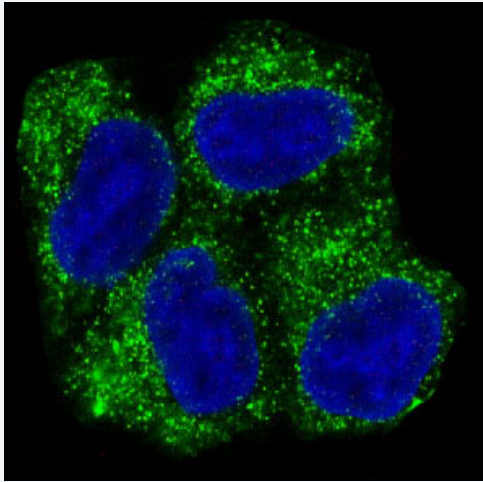
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Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,
Wuhan East Lake High-tech Development Zone

Web: www.boster.com **Phone:** 027-67845390 **Email:** boster@boster.com



Immunofluorescent analysis of HeLa cells, using AMPK alpha 1 Antibody.