

Anti-AMPK alpha 1 PRKAA1 Rabbit Monoclonal Antibody

Catalog Number: M00994

About PRKAA1

Catalyzes the first step in leukotriene biosynthesis, and thereby plays a role in inflammatory processes.

Overview

Product Name	Anti-AMPK alpha 1 PRKAA1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-AMPK alpha 1 PRKAA1 Rabbit Monoclonal Antibody catalog # M00994. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal CDD-16
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13131

Technical Details

Immunogen	A synthesized peptide derived from human AMPK alpha 1
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200</p>

	IP 1:50 FC 1:50
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Anti-AMPK alpha 1 PRKAA1 Rabbit Monoclonal Antibody (M00994) Images

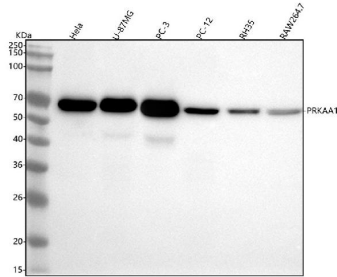


Figure 1. Western blot analysis of AMPK alpha 1 using anti-AMPK alpha 1 antibody (M00994).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. 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-87MG whole cell lysates,

Lane 3: human PC-3 whole cell lysates,

Lane 4: rat PC-12 whole cell lysates,

Lane 5: rat RH35 whole cell lysates,

Lane 6: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes.

Blocked the membrane with 5% non-fat milk/TBS for 1.5

hour at RT. The membrane was incubated with rabbit anti-

AMPK alpha 1 antigen affinity purified monoclonal antibody (Catalog # M00994) at 1:500 overnight at 4°C, then washed

with TBS-0.1%Tween 3 times with 5 minutes each and

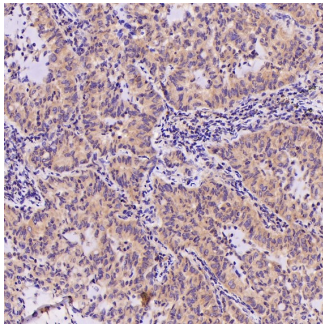
probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is

developed using an Enhanced Chemiluminescent detection

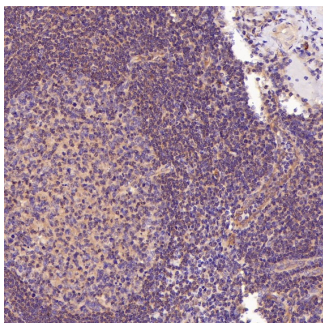
(ECL) kit (Catalog # EK1002) with Tanon 5200 system. A

specific band was detected for AMPK alpha 1 at

approximately 64 kDa. The expected band size for AMPK alpha 1 is at 64 kDa.

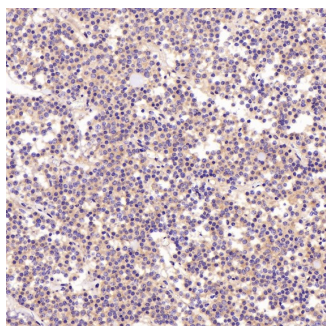


Immunohistochemical analysis of paraffin-embedded Human lung adenocarcinoma, using the Antibody at 1:500 dilution.

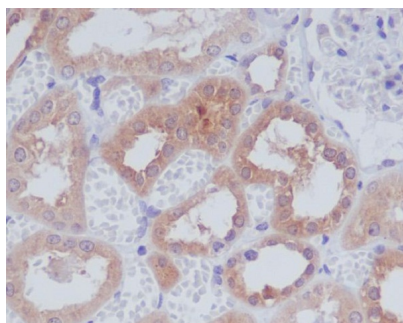


Immunohistochemical analysis of paraffin-embedded Human tonsil, using the Antibody at 1:500 dilution.

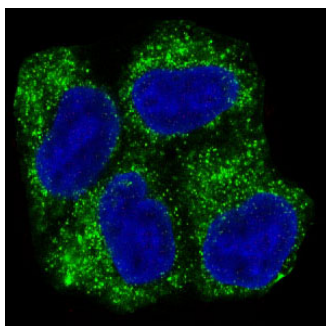
Immunohistochemical analysis of paraffin-embedded Human pituitary tumor, using the Antibody at 1:500 dilution.



Immunohistochemical analysis of paraffin-embedded human kidney, using AMPK alpha 1 Antibody.



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



1 Publications Citing This Product

1. PubMed ID: 25162824, Hou S, Zheng F, Li Y, Gao L, Zhang J. Int J Mol Sci. 2014 Aug 26;15(9):15026-43. Doi: 10.3390/Ijms150915026. The Protective Effect Of Glycyrrhizic Acid On Renal Tubular Epithelial Cell Injury Induced By High Glucose.

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