Product Name: PRKAA2 Mouse Monoclonal Antibody Catalog #: AMM81832



Summary

Production Name PRKAA2 Mouse Monoclonal Antibody

Description Mouse Monoclonal Antibody

Host Mouse

Application WB,IHC,ICC,FC,ELISA

Reactivity Human, Mouse, Rat, Monkey, Rabbit

Performance

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Purified antibody in PBS with 0.05% sodium azide

Purification Affinity Purification

Immunogen

Storage

Gene Name PRKAA2

Alternative Names AMPK; AMPK2; PRKAA; AMPKa2

Gene ID 5563.0

P54646.Purified recombinant fragment of human PRKAA2 (AA: 453-552) expressed in E.

SwissProt ID Coli.

Application

Dilution Ratio WB:1:500-1:2000,IHC:1:100-1:500,ICC:1:50-1:500,FC:1:200-1:400,ELISA:1:10000

Molecular Weight 62.3kDa

Background

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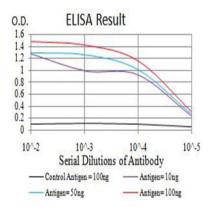
The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia.

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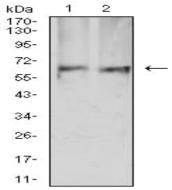
Research Area

Autophagy, Wnt signaling pathway, PI3K-Akt signaling pathway

Image Data



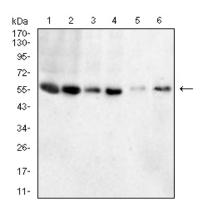
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



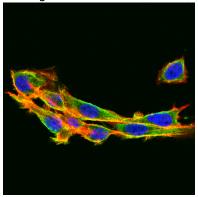
Western blot analysis using PRKAA2 mouse mAb against HEK293 (1) and COS7 (2) cell lysate.

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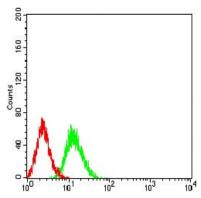




Western blot analysis using PRKAA2 mouse mAb against Mouse liver(1)PC-12(2)NIH/3T3(3)NRK(4)C2C12(5)C6(6)cell lysate.



Immunofluorescence analysis of NIH/3T3 cells using PRKAA2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

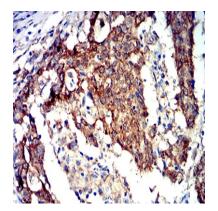


Flow cytometric analysis of Jurkat cells using PRKAA2 mouse mAb (green) and negative control (red).

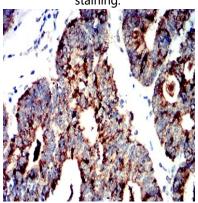
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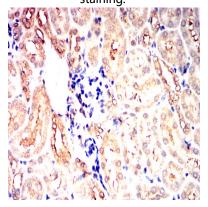
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Immunohistochemical analysis of paraffin-embedded human stomach cancer tissues using PRKAA2 mouse mAb with DAB staining.



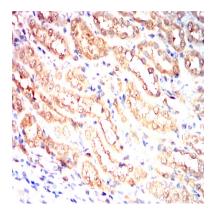
Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using PRKAA2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Mouse kidney using PRKAA2 mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded Rat kidney using PRKAA2 mouse mAb with DAB staining.

Note

For research use only.