Product Name: PRKAA1 Mouse Monoclonal Antibody

Catalog #: AMM80955



Summary

Production Name PRKAA1 Mouse Monoclonal Antibody

Description Mouse Monoclonal Antibody

Host Mouse

Application WB,IHC,ICC,FC,ELISA

Reactivity Human, Mouse, Rat, Monkey

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 PRKAA1

Alternative Names AMPK; AMPKa1; MGC33776; MGC57364; PRKAA1

Gene ID 5562.0

SwissProt ID Q13131.Purified recombinant fragment of human PRKAA1 expressed in E. Coli.

Application

Dilution Ratio WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000

Molecular Weight 64kDa

Background

The protein belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein

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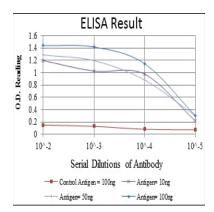


kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

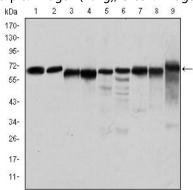
Research Area

Autophagy, Wnt signaling pathway, PI3K-Akt signaling pathway

Image Data



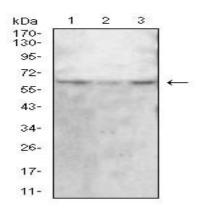
Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



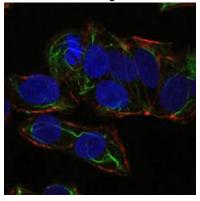
Western blot analysis using PRKAA1 mouse mAb against Jurkat (1), Hela (2), HepG2 (3), MCF-7 (4), Cos7 (5), NIH/3T3 (6), K562 (7), HEK293 (8), and PC-12 (9) cell lysate.

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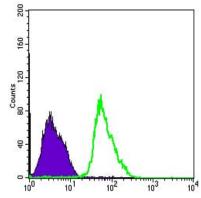




Western blot analysis using PRKAA1 mouse mAb against COS7(1),C2C12(2),NIH/3T3(3) cell lysate.



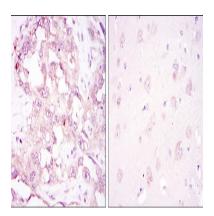
Immunofluorescence analysis of NTERA-2 cells using PRKAA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of PC-2 cells using PRKAA1 mouse mAb (green) and negative control (purple).

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Immunohistochemical analysis of paraffin-embedded human ovarian cancer (left) and brain tissues (right) using PRKAA1 mouse mAb with DAB staining.

Note

For research use only.