

## PRKAA1 monoclonal antibody

Catalog: MB21438

Host: Mouse

Reactivity: Human, Mouse, Rat, Monkey

### Background:

The protein 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. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

### Product:

Purified antibody in PBS with 0.05% sodium azide.

### Molecular Weight:

64kDa

### Swiss-Prot:

Q13131

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1/500 - 1/2000 IHC: 1/200 - 1/1000 IF: 1/200 - 1/1000  
FC: 1/200 - 1/400

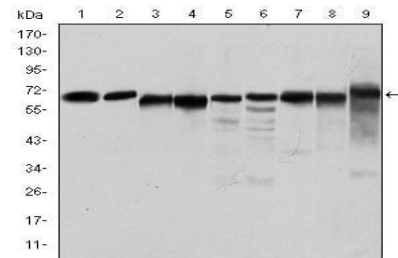
### Storage&Stability:

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

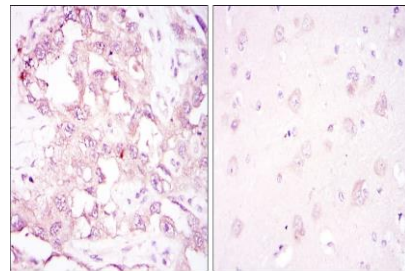
### Isotype:

Mouse IgG1

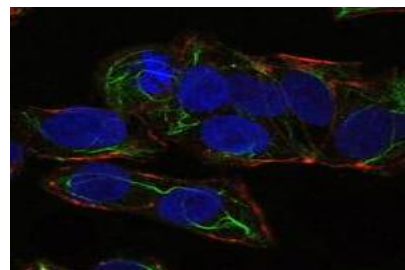
### DATA:



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.



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



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.

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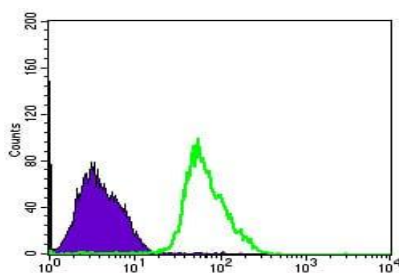
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Flow cytometric analysis of PC-2 cells using PRKAA1 mouse mAb (green) and negative control (purple).

**Note:**

For research use only, not for use in diagnostic procedure.

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