

产品名称: PRKAA2 Mouse Monoclonal Antibody
产品货号: AMM81832



产品概述 (Summary)

产品名称 (Production Name)	PRKAA2 Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC,ELISA,FC
种属反应性 (Reactivity)	Human,Mouse,Rat,Monkey,Rabbit

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	Mouse IgG1
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Purified antibody in PBS with 0.05% sodium azide
纯化方式 (Purification)	Affinity Purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PRKAA2
别名 (Alternative Names)	AMPK; AMPK2; PRKAA; AMPKa2
基因 ID (Gene ID)	5563.0
蛋白 ID (SwissProt ID)	P54646.Purified recombinant fragment of human PRKAA2 (AA: 453-552) expressed in E. Coli.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:500,ICC 1:50-1:500,ELISA 1:5000-1:20000,FC 1:200-1:400
蛋白分子量 (Molecular Weight)	62.3kDa

研究背景 (Background)

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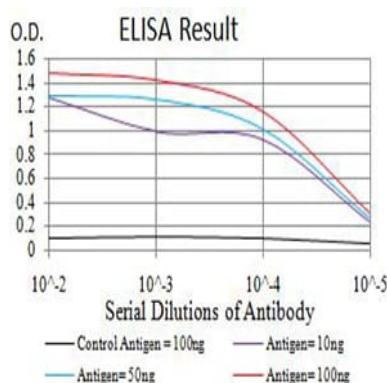


The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response 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.

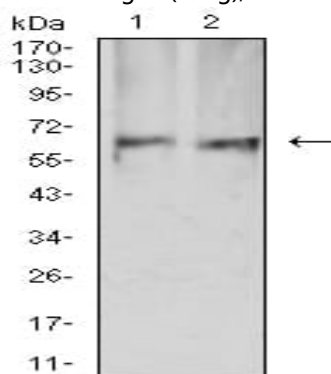
研究领域 (Research Area)

Autophagy, Wnt signaling pathway, PI3K-Akt signaling pathway

图片 (Image Data)

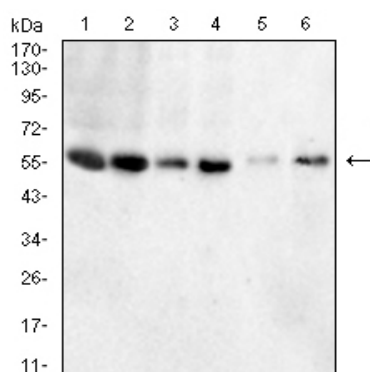


Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

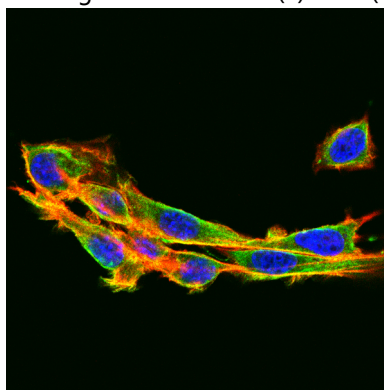


Western blot analysis using PRKAA2 mouse mAb against HEK293 (1) and COS7 (2) cell lysate.

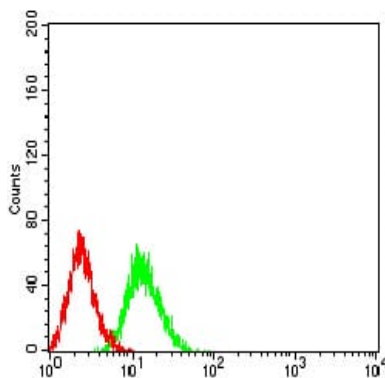
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Western blot analysis using PRKAA2 mouse mAb against Mouse liver(1)PC-12(2)NIH/3T3(3)NRK(4)C2C12(5)C6(6)cell lysate.

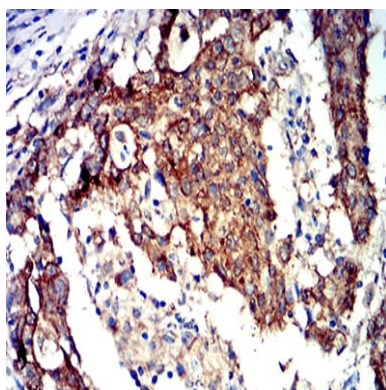


Immunofluorescence analysis of NIH/3T3 cells using PRKAA2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

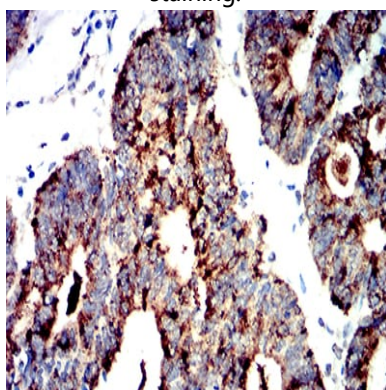


Flow cytometric analysis of Jurkat cells using PRKAA2 mouse mAb (green) and negative control (red).

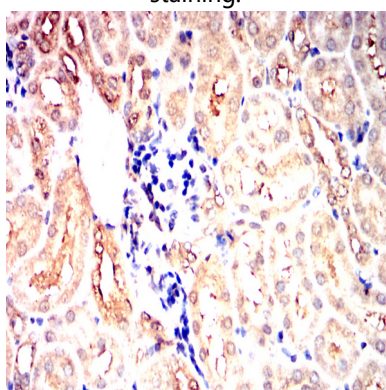
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Immunohistochemical analysis of paraffin-embedded human stomach cancer tissues using PRKAA2 mouse mAb with DAB staining.

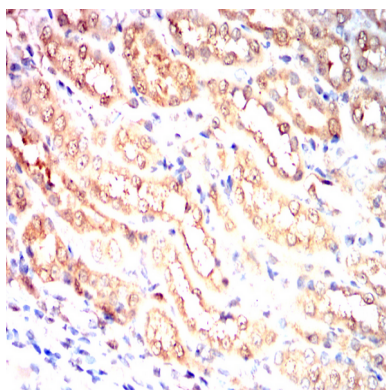


Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using PRKAA2 mouse mAb with DAB staining.



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.

注意事项 (Note)

For research use only .