Product Name: PRKAG1 Mouse Monoclonal Antibody
Catalog #: AMM81301
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	IHC,ICC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	37.6kDa

Antigen Information

Gene Name	PRKAG1
Alternative Names	AMPKG
Gene ID	5571.0
SwissProt ID	P54619
Immunogen	Purified recombinant fragment of human PRKAG1 (AA: 230-331) expressed in E. Coli.

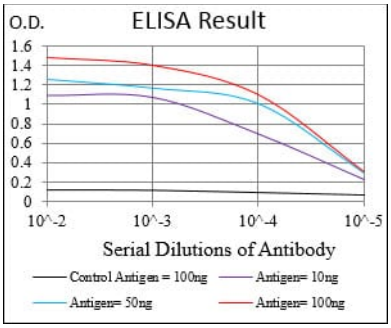
Background

The protein encoded by this gene is a regulatory 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

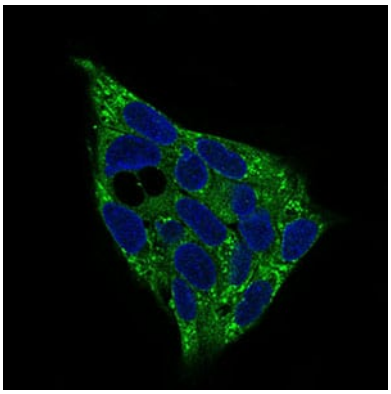
phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

Research Area

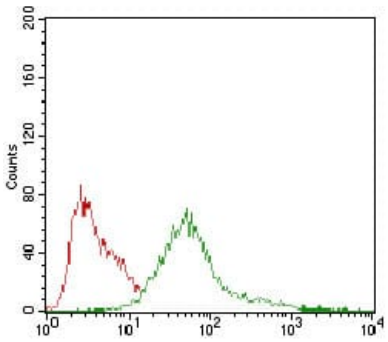
Image Data



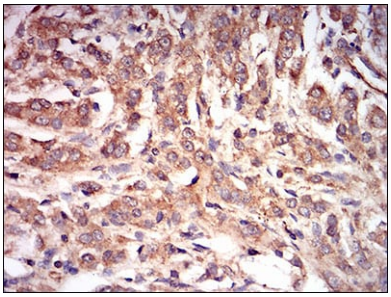
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



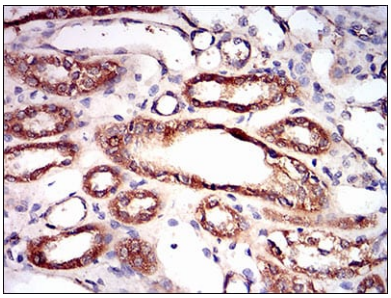
Immunofluorescence analysis of HepG2 cells using PRKAG1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of HepG2 cells using PRKAG1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissues using PRKAG1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human kidney tissues using PRKAG1 mouse mAb with DAB staining.