PRKAG1 rabbit monoclonal antibody

Catalog # H00005571-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human PRKAG1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human PRKAG1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human PRKAG1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — PRKAG1

Entrez GeneID	5571
GeneBank Accession#	PRKAG1
Gene Name	PRKAG1
Gene Alias	AMPKG, MGC8666
Gene Description	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
Omim ID	602742
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	5'-AMP-activated protein kinase, gamma-1 subunit|AMP-activated protein kinase, noncatalytic gamma-1 subunit|AMPK gamma-1 chain

Pathway

- Adipocytokine signaling pathway
- Hypertrophic cardiomyopathy (HCM)
- Insulin signaling pathway

Disease

- Atherosclerosis
- Calcinosis

- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Hypercholesterolemia