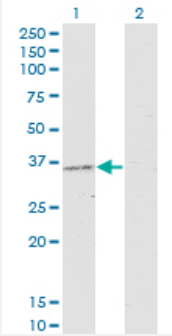
PRKAG2 monoclonal antibody (M01), clone 3C4

Catalog # H00051422-M01 Size 100 ug

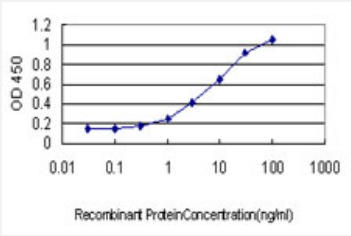
Applications



Western Blot (Transfected lysate)

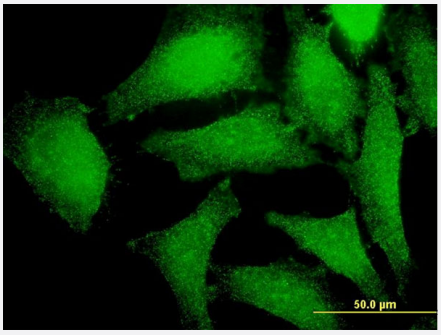
Western Blot analysis of PRKAG2 expression in transfected 293T cell line by PRKAG2 monoclonal antibody (M01), clone 3C4.

Lane 1: PRKAG2 transfected lysate (Predicted MW: 37.5 KDa).
Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRKAG2 is approximately 0.03ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PRKAG2 on HeLa cell . [antibody concentration 10 ug/ml]

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PRKAG2.

Immunogen	PRKAG2 (AAH20540, 191 a.a. ~ 300 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	AFMKQNLDELGIGTYHNIAFIHPDTPIIKALNIFVERRISALPVVDESGKVVDIYSKFDVINLAAEKTYN NLDITVTQALQHRSQYFEGVVKCNKLEILETIVDRIVRAE
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (97)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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  Protocol Download

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- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to PRKAG2 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — PRKAG2

Entrez GeneID	51422

GeneBank Accession#	BC020540
Protein Accession#	AAH20540
Gene Name	PRKAG2
Gene Alias	AAKG, AAKG2, CMH6, H91620p, WPWS
Gene Description	protein kinase, AMP-activated, gamma 2 non-catalytic subunit
Omim ID	194200 600858 602743
Gene Ontology	Hyperlink
Gene Summary	AMP-activated protein kinase (AMPK) is a heterotrimeric protein composed of a catalytic alpha s ubunit, a noncatalytic beta subunit, and a noncatalytic regulatory gamma subunit. Various forms of each of these subunits exist, encoded by different genes. AMPK is an important energy-sensing e nzyme that monitors cellular energy status and functions by inactivating key enzymes involved in re gulating de novo biosynthesis of fatty acid and cholesterol. This gene is a member of the AMPK g amma subunit family and encodes a protein with four cystathionine beta-synthase domains. Mutati ons in this gene have been associated with ventricular pre-excitation (Wolff-Parkinson-White synd rome), progressive conduction system disease and cardiac hypertrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq
Other Designations	AMP-activated protein kinase gamma2 subunit|AMPK gamma2

Pathway

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

Disease

- Atherosclerosis
- Calcinosis
- Cardiomegaly
- Cardiomyopathy
- Cardiovascular Diseases
- Colonic Neoplasms

- Coronary Artery Disease
- Diabetes Mellitus
- Diabetic Angiopathies
- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Insulin Resistance
- Kidney Failure
- Rectal Neoplasms
- Tobacco Use Disorder