

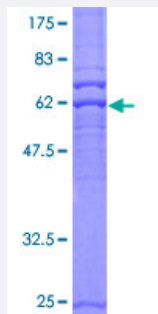
Full-Length

PRKAG2 (Human) Recombinant Protein (P01)

Catalog # H00051422-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PRKAG2 full-length ORF (NP_077747.1, 1 a.a. - 328 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MLEKLEFEDEAVEDSESGVYMRFMRSKCYDMPTSSKLVVFDTTLQVKKAFFALVANGVRAAP
LWESKKQSFVGMLTITDFINLHRYKSPMVQYELEEHKIETWRELYLQETFKPLVNISPDASLFDA
VYSLIKNKHRLPVIDPISGNALYILTHKRILKFLQLFMSDMPKPAFMKQNLDELGIGTYHNIAFIHPDTP
IHKALNIFVERRISALPVVDESGKVVDIYSKFDVINLAAEKTNNLDITVTQALQHRSQYFEGVVCKNK
LEILETIVDRMRAEVHRLVVVNEADSVGIISLSDILQALILTPAGAKQKETETE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.9

Interspecies Antigen Sequence

Mouse (98); Rat (98)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRKAG2

Entrez GeneID[51422](#)**GeneBank Accession#**[NM_024429.1](#)**Protein Accession#**[NP_077747.1](#)**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 subunit, 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 enzyme that monitors cellular energy status and functions by inactivating key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This gene is a member of the AMPK gamma subunit family and encodes a protein with four cystathionine beta-synthase domains. Mutations in this gene have been associated with ventricular pre-excitation (Wolff-Parkinson-White syndrome), 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](#)