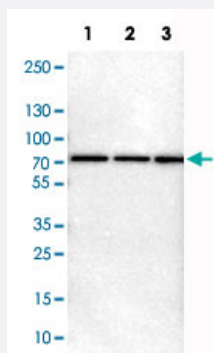


PRKAG2 polyclonal antibody

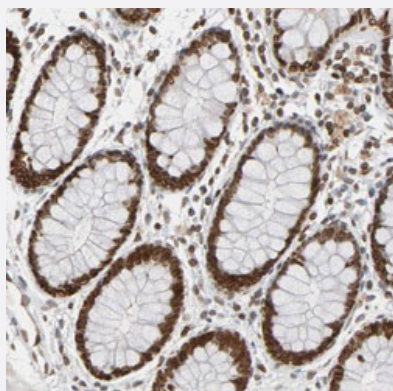
Catalog # PAB30687 Size 100 uL

Applications



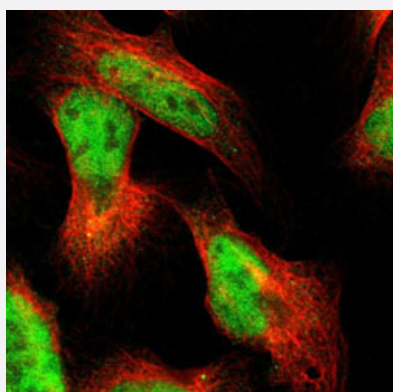
Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH-3T3 cell lysate (mouse embryonic fibroblast cells), Lane 2: NBT-II cell lysate (Wistar rat bladder tumor cells) and Lane 3: PC12 cell lysate (pheochromocytoma of rat adrenal medulla) with PRKAG2 polyclonal antibody (Cat # PAB30687).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human rectum with PRKAG2 polyclonal antibody (Cat # PAB30687) shows strong nuclear positivity in glandular cells.



Immunofluorescence

Immunofluorescent staining of U-2 OS with PRKAG2 polyclonal antibody (Cat # PAB30687) (Green) shows positivity in nucleus but excluded from the nucleoli.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human PRKAG2.
Immunogen	Recombinant protein corresponding to human PRKAG2.
Sequence	STPTQVTKQHTFPLESYKHEPERLENRIYASSSPDGTGQRFQSPSSPSPTRPPLASPTHYAPSKA AALAAALGPAEAGMLEKLEFEDEAVEDSESGVYMRFMRSK
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — PRKAG2

Entrez GeneID [51422](#)

Protein Accession# [Q9UGJ0](#)

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](#)