

DNAxPAb

Hard-to-Find
Antibody

PRKAG3 DNAxPab

Catalog # H00053632-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human PRKAG3 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MEPGLEHALRRTPSWSSLGGSEHQEMSFLSEQENSSSWPSPAVTSSSERIRGKRRAKALRWTRQ KSVEEGEPGQGEGPRSRPAAESTGLEATFPKTTPLAQADPAGVGTPPTGWDCLPSDCTASAA GSSTDDVELATEFPATEAWECELEGLLEERPALCLSPQAPFPKLGWDDDELRKPGAQIMRFMQ EHTCYDAMATSSKL VIFDTMLEIKKAFFALVANGVRAAPLWDSKKQSFVGMLTTDFILVLHRYRS PLVQIYEIEQHKIETWREIMLQGCFKPLVSISPNDSLFEAVYTLIKNRIHRLPVLDPVSGNVLHILTHKR LLKFLHIFGSLPRPSFLYRTIQDLGIGTFRDLAVVLETAPILTALDIFVDRRVSAIPVNECGQVVGL YSRFDVIHLAAQQTYNHLDMSVGGEALRQRTLCEGLVLSQPHESLGEVIDRIAREQVHRLVLVDET QHLLGVVSLSDILQALVLSPAGIDALGA
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — PRKAG3

Entrez GeneID [53632](#)

GeneBank Accession# [NM_017431.2](#)

Protein Accession# [NP_059127.2](#)

Gene Name PRKAG3

Gene Alias AMPKG3

Gene Description protein kinase, AMP-activated, gamma 3 non-catalytic subunit

Omim ID [604976](#)

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. It is dominantly expressed in skeletal muscle. Studies of the pig counterpart suggest that this subunit may play a key role in the regulation of energy metabolism in skeletal muscle. [provided by RefSeq]

Other Designations 5'-AMP-activated protein kinase, gamma-3 subunit|AMP-activated protein kinase, non-catalytic gamma-3 subunit|AMPK gamma-3 chain|OTTHUMP00000164095

Pathway

- [Adipocytokine signaling pathway](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Insulin signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)