

Rabbit AMPK gamma (PRKAG1) Polyclonal Antibody | anti-PRKAG1 antibody

AMPK gamma (PRKAG1) Antibody (Center)

CATALOG # AAA287247	HOST Rabbit	REACTIVITY Human, mouse (Predicted Reactivity: Bovine, Pig)	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

AMPK gamma (PRKAG1); Polyclonal Antibody; AMPK gamma (PRKAG1) Antibody (Center); 5'-AMP-activated protein kinase subunit gamma-1; AMPK gamma1; AMPK subunit gamma-1; AMPKg; PRKAG1; anti-PRKAG1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Bovine, Pig)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AMPK gamma (PRKAG1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 265-295 amino acids from the Central region of human AMPK gamma (PRKAG1).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	265-295
Sequence Length	340
Applicable Applications for anti-PRKAG1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human testis tissue reacted with PRKAG1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)

The anti-PRKAG1 Pab is used in Western blot to detect PRKAG1 in mouse heart tissue lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAG1 antibody	PRKAG1 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.
Product Categories/Family for anti-PRKAG1 antibody	Cancer; Cardiovascular; Metabolism; Signal transduction
References	Minokoshi, Y., et al., Nature 428(6982):569-574 (2004). Hamilton, S.R., et al., FEBS Lett. 500(3):163-168 (2001). Zidovetzki, R., et al., AIDS Res. Hum. Retroviruses 14(10):825-833 (1998). Reinton, N., et al., Genomics 49(2):290-297 (1998). Stapleton, D., et al., FEBS Lett. 409(3):452-456 (1997).

NCBI AND UNIPROT INFORMATION

NCBI GI #	332000015
NCBI GeneID	5571
NCBI Accession #	NP_001193638.1; NP_001193639.1; NP_002724.1
NCBI GenBank Nucleotide #	NM_001206709.1
UniProt Accession #	P54619; Q8N7V9; B4DDT7
Molecular Weight	37579
NCBI Official Full Name	5'-AMP-activated protein kinase subunit gamma-1 isoform 3
NCBI Official Synonym Full Names	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
NCBI Official Symbol	PRKAG1
NCBI Official Synonym Symbols	AMPKG
NCBI Protein Information	5'-AMP-activated protein kinase subunit gamma-1
UniProt Protein Name	5'-AMP-activated protein kinase subunit gamma-1
UniProt Gene Name	PRKAG1
UniProt Synonym Gene Names	AMPK gamma1; AMPK subunit gamma-1; AMPKg
UniProt Entry Name	AAKG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.