

Rabbit anti-Human, mouse PRKAG3 Polyclonal Antibody | anti-PRKAG3 antibody

PRKAG3 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284067	Rabbit	Human, mouse	Immunohistochemistry, ELISA, Western Blot

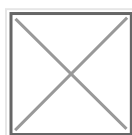
PRODUCT SYNONYMS

PRKAG3; Polyclonal Antibody; PRKAG3 Antibody (Center); 5'-AMP-activated protein kinase subunit gamma-3; AMPK gamma3; AMPK subunit gamma-3; AMPKG3; anti-PRKAG3 antibody

PRODUCT SPECIFICATIONS

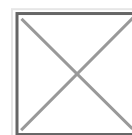
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PRKAG3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 148-178 amino acids from the Central region of human PRKAG3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (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	148-178
Sequence Length	489
Applicable Applications for anti-PRKAG3 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 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)

Western blot analysis of anti-PRKAG3 Pab in mouse brain tissue lysate. PRKAG3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAG3 antibody	PRKAG3 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.
Product Categories/Family for anti-PRKAG3 antibody	Cancer; Cardiovascular; Metabolism; Signal transduction
References	Milan, D., et al., Science 288(5469):1248-1251 (2000). Cheung, P.C., et al., Biochem. J. 346 Pt 3, 659-669 (2000).

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132577
NCBI GeneID	53632
NCBI Accession #	NP_059127.2
NCBI GenBank Nucleotide #	NM_017431.2
UniProt Accession #	Q9UGI9; Q4QQG8; Q4V779; Q9NRL1
Molecular Weight	54258
NCBI Official Full Name	5'-AMP-activated protein kinase subunit gamma-3
NCBI Official Synonym Full Names	protein kinase, AMP-activated, gamma 3 non-catalytic subunit
NCBI Official Symbol	PRKAG3
NCBI Official Synonym Symbols	AMPKG3
NCBI Protein Information	5'-AMP-activated protein kinase subunit gamma-3
UniProt Protein Name	5'-AMP-activated protein kinase subunit gamma-3
UniProt Gene Name	PRKAG3
UniProt Synonym Gene Names	AMPKG3; AMPK gamma3; AMPK subunit gamma-3
UniProt Entry Name	AAKG3_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/prkag3-antibody-immunohistochemistry-western-blot-elisa/284067>