

Rabbit AMPK beta (PRKAB1) Polyclonal Antibody | anti-PRKAB1 antibody

AMPK beta (PRKAB1) Antibody (N-term)

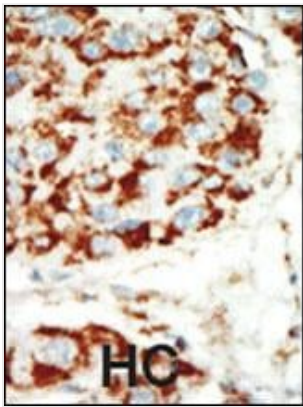
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287821	Rabbit	Human, mouse (Predicted Reactivity: Rat)	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

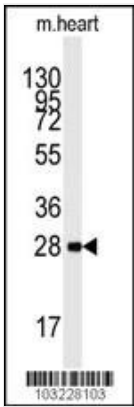
AMPK beta (PRKAB1); Polyclonal Antibody; AMPK beta (PRKAB1) Antibody (N-term); 5'-AMP-activated protein kinase subunit beta-1; AMPK subunit beta-1; AMPKb; PRKAB1; AMPK; anti-PRKAB1 antibody

PRODUCT SPECIFICATIONS

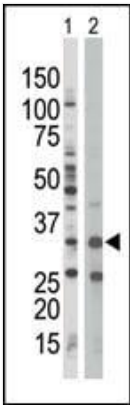
Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AMPK beta (PRKAB1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-34 amino acids from the N-terminal region of human AMPK beta (PRKAB1).
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	4-34
Sequence Length	270
Applicable Applications for anti-PRKAB1 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.



IHC (Immunohistochemisry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC 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-PRKAB1 Antibody (N-term) in mouse heart lysates (35ug/lane). PRKAB1 (arrow) was detected using the purified Pab.



WB (Western Blot)
The anti-PRKAB1 Pab is used in Western blot to detect PRKAB1 in Jurkat cell lysate (Lane 1) and mouse spleen tissue lysate (Lane 2).

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAB1 antibody	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 may be a positive regulator of AMPK activity. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex.
Product Categories/Family for anti-PRKAB1 antibody	Cancer; Cardiovascular; Metabolism; Signal Transduction; GPCR Antibodies
References	Minokoshi, Y., et al., Nature 428(6982):569-574 (2004). Andersson, U., et al., J. Biol. Chem. 279(13):12005-12008 (2004). Landree, L.E., et al., J. Biol. Chem. 279(5):3817-3827 (2004). Carling, D., Trends Biochem. Sci. 29(1):18-24 (2004). Shaw, R.J., et al., Proc. Natl. Acad. Sci. U.S.A. 101(10):3329-3335 (2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923359
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NCBI GeneID	5564
NCBI Accession #	NP_006244.2
NCBI GenBank Nucleotide #	NM_006253.4
UniProt Accession #	Q9Y478; Q9UBV0; Q9UE20; Q9UEX2; Q9Y6V8
Molecular Weight	30382
NCBI Official Full Name	5'-AMP-activated protein kinase subunit beta-1
NCBI Official Synonym Full Names	protein kinase, AMP-activated, beta 1 non-catalytic subunit
NCBI Official Symbol	PRKAB1
NCBI Official Synonym Symbols	AMPK; HAMPKb
NCBI Protein Information	5'-AMP-activated protein kinase subunit beta-1
UniProt Protein Name	5'-AMP-activated protein kinase subunit beta-1
UniProt Gene Name	PRKAB1
UniProt Synonym Gene Names	AMPK; AMPK subunit beta-1; AMPKb
UniProt Entry Name	AAKB1_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/ampk-beta-prkab1-antibody-immunohistochemistry-western-blot-elisa/287821>