

Datasheet for ABIN391054

anti-PRKAB1 antibody (N-Term)**3** Images[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	PRKAB1
Binding Specificity:	AA 4-34, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	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).
Clone:	RB3228
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PRKAB1
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Target Details

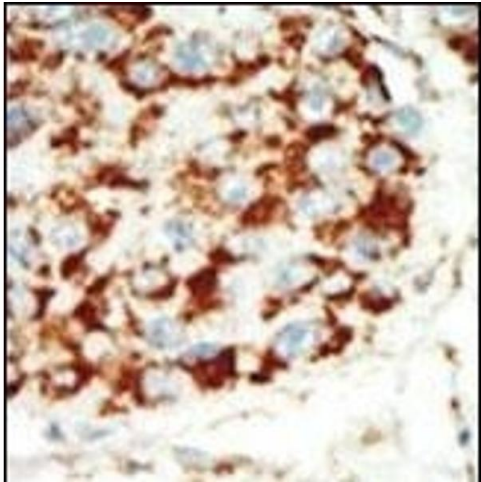
Alternative Name:	AMPK beta (PRKAB1) (PRKAB1 Products)
Background:	<p>The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing 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.</p>
Molecular Weight:	30382
Gene ID:	5564
NCBI Accession:	NP_006244
UniProt:	Q9Y478
Pathways:	AMPK Signaling, Warburg Effect

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

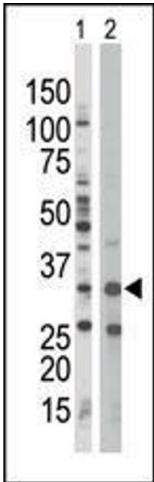
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.



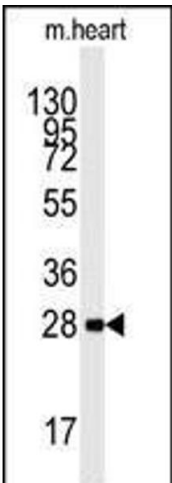
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. 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.



Western Blotting

Image 2. The anti-PRKAB1 Pab (ABIN391054 and ABIN2841211) is used in Western blot to detect PRKAB1 in Jurkat cell lysate (Lane 1) and mouse spleen tissue lysate (Lane 2).



Western Blotting

Image 3. Western blot analysis of anti-PRKAB1 Antibody (N-term) (ABIN391054 and ABIN2841211) in mouse heart lysates (35 µg/lane). PRKAB1 (arrow) was detected using the purified Pab.