

Datasheet for ABIN3032386
anti-PRKAB1 antibody (AA 4-34)

5 Images

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Overview

Quantity:	0.4 mL
Target:	PRKAB1
Binding Specificity:	AA 4-34
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	A portion of amino acids 4-34 from the human protein was used as the immunogen for this AMPK beta 1 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Rat
Purification:	Purified

Target Details

Target:	PRKAB1
Alternative Name:	AMPK beta 1 (PRKAB1) (PRKAB1 Products)
Background:	The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase

Target Details

(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.

UniProt: [Q9Y478](#)

Pathways: [AMPK Signaling, Warburg Effect](#)

Application Details

Application Notes: Titration of the AMPK beta 1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100

Restrictions: For Research Use only

Handling

Format: Liquid

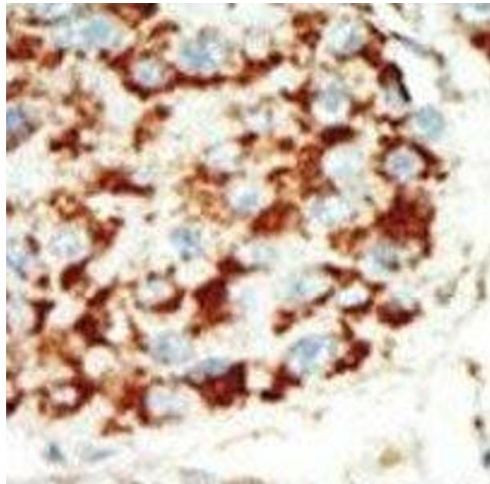
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

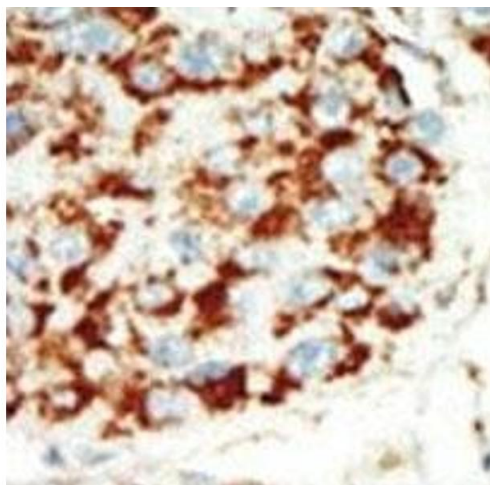
Storage: -20 °C

Storage Comment: Aliquot the AMPK beta 1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



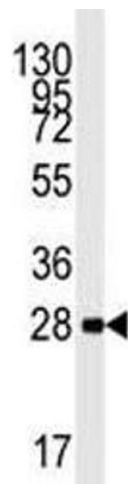
Immunohistochemistry

Image 1. IHC analysis of FFPE human hepatocarcinoma tissue stained with the AMPK beta 1 antibody



Immunohistochemistry

Image 2. IHC analysis of FFPE human hepatocarcinoma tissue stained with the AMPK beta 1 antibody



Western Blotting

Image 3. Western blot analysis of AMPK beta 1 antibody and mouse heart lysate

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3032386.