

Datasheet for ABIN7269654
anti-PRKAB1 antibody



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5 Images

Overview

Quantity:	100 µL
Target:	PRKAB1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PRKAB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	AMPKβ1 Rabbit mAb
Immunogen:	A synthesized peptide derived from human AMPKbeta1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PRKAB1
Alternative Name:	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. [provided by RefSeq, Jul 2008],AMPK, HAMPKb,AMPK Signaling

Pathway, Autophagy, Autophagy_Regulator, Cancer, Cardiovascular, Cell Biology & Developmental Biology, Endocrine & Metabolism, Insulin Receptor Signaling

Pathway, Kinase, Kinase_Serine/threonine kinases, Lipid Metabolism, Lipids, Lipids_Fatty Acids, PI3K-Akt Signaling Pathway, PI3K-Akt Signaling Pathway_Regulator of mTOR complex function, Protein phosphorylation, Signal Transduction, Warburg Effect, PRKAB1

Molecular Weight: 38kDa

Gene ID: 5564

UniProt: [Q9Y478](#)

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

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

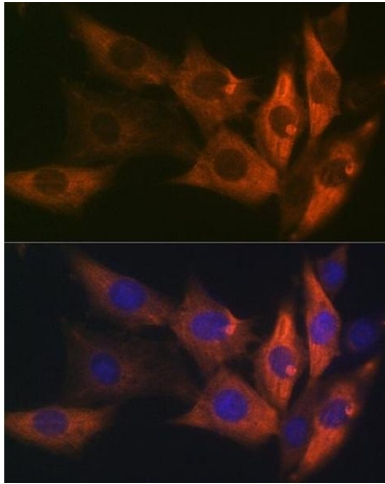
Preservative: Sodium azide

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

Storage: -20 °C

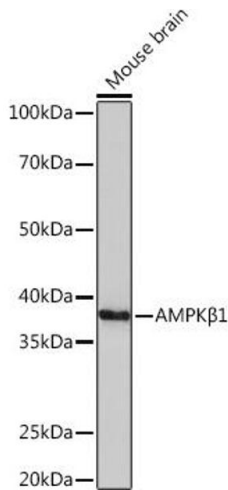
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



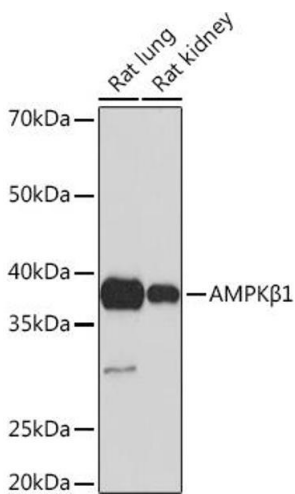
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH-3T3 cells using AMPKβ1 Rabbit mAb (ABIN7269654) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of Mouse brain, using AMPKβ1 Rabbit mAb (ABIN7269654) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3 min.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using AMPKβ1 Rabbit mAb (ABIN7269654) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7269654.