Datasheet for ABIN7184496

anti-PRKAB1 antibody (N-Term)

1 Image

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Overview

Quantity:	100 µL
Target:	PRKAB1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Synthesized peptide derived from N-terminal of Human PRKAB1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	PRKAB1
Alternative Name:	PRKAB1 (PRKAB1 Products)
Background:	Background: Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor

Target Details

	protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton, probably by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3). Stapleton D., FEBS Lett. 409:452-456(1997). Scherer S.E., Nature 440:346-351(2006). The MGC Project Team, Genome Res. 14:2121-2127(2004). Aliases: 1300015D22Rik antibody, 5''-AMP-activated protein kinase subunit beta-1 antibody, 5'-AMP-activated protein kinase beta-1 subunit antibody, AAKB1_HUMAN antibody, AMP-activated protein kinase beta subunit antibody, AMP-ACTIVATED PROTEIN KINASE, NONCATALYTIC, BETA-1 antibody, AMP-activated, noncatalytic, beta-1 antibody, AMPK antibody, AMPK beta 1 chain antibody, AMPK subunit beta-1 antibody, AMPK-BETA-1 antibody, AMPKb antibody, AU021155 antibody, E430008F22 antibody, HAMPKb antibody, MGC17785 antibody, PRKAB1 antibody, Protein kinase AMP activated non catalytic subunit beta 1 antibody, protein kinase, AMP-activated, beta 1 non-catalytic subunit antibody, protein kinase, AMP-activated, noncatalytic, beta-1 antibody
UniProt:	Q9Y478
Pathways:	AMPK Signaling, Warburg Effect

Application Details

Application Notes:	WB:1:500-1:3000,
Restrictions:	For Research Use only

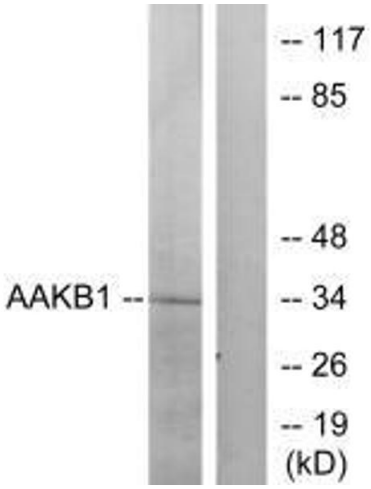
Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Handling

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,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of extracts from RAW264.7 cells, treated with TNF (20 ng/mL, 5 mins), using PRKAB1 antibody.