

Datasheet for ABIN7138455
anti-PRKAB1 antibody (pSer181)



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1 Image

Overview

Quantity:	100 µL
Target:	PRKAB1
Binding Specificity:	pSer181
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Peptide sequence around phosphorylation site of Serine 181(L-S-S(p)-S-P) derived from Human AMPK beta1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

Target:	PRKAB1
Alternative Name:	PRKAB1 (PRKAB1 Products)

Target Details

Background:	<p>Background: Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor 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).</p> <p>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</p>
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UniProt: [Q9Y478](#)

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

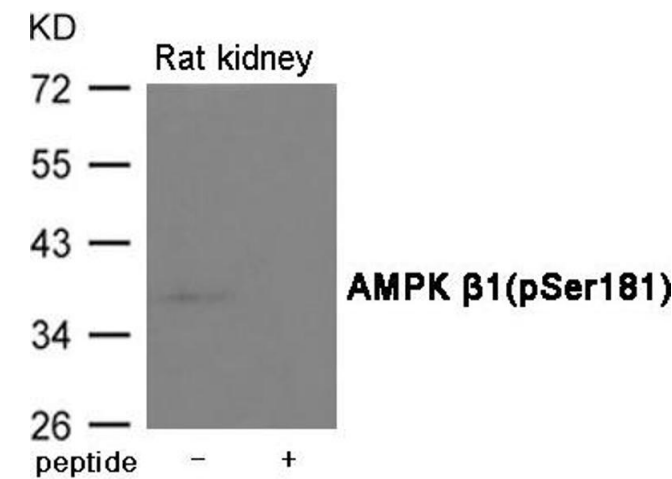
Application Details

Application Notes:	WB:1:500-1:1000,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

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 Rat kindey using AMPK β1(Phospho-Ser181) Antibody.The lane on the right is treated with the antigen-specific peptide.