Datasheet for ABIN6136014

anti-PRKAB1 antibody (pSer108)

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Overview

Quantity:	100 µL
Target:	PRKAB1
Binding Specificity:	pSer108
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAB1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	A synthetic phosphorylated peptide around S108 of human AMPKbeta1 (NP_006244.2).
Sequence:	TRSHN
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Phosphorylated Antibodies

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.,PRKAB1,AMPK,HAMPKb,Cancer,Signal Transduction,Kinase,Serine/threonine kinases,PI3K-Akt Signaling Pathway,Cell Biology & Developmental Biology,Autophagy,Endocrine & Metabolism,Lipid Metabolism,AMPK Signaling Pathway,Insulin Receptor Signaling Pathway,Warburg Effect,Cardiovascular,Lipids,Fatty Acids,Regulator of mTOR complex function,Regulators,Protein phosphorylation,PRKAB1
Molecular Weight:	30 kDa
Gene ID:	5564
UniProt:	Q9Y478
Pathways:	AMPK Signaling, Warburg Effect

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

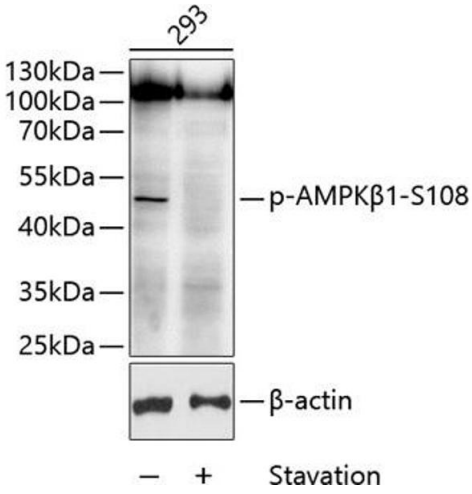
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,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.

Publications

Product cited in: Yang, He, Yao, Tan, Zhu, Li, Guo, Wei: "Regulation of AMPK-related glycolipid metabolism imbalances redox homeostasis and inhibits anchorage independent growth in human breast cancer cells." in: **Redox biology**, Vol. 17, pp. 180-191, (2018) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of extracts of 293 cells, using Phospho-AMPKβ1-S108 antibody (ABIN6135184, ABIN6136014, ABIN6136015 and ABIN6225614) 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 % BSA.