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Datasheet for ABIN1842476 anti-PRKAA1/PRKAA2 antibody (pThr172, pThr174)

Publication



Overview

Quantity:	100 µg
Target:	PRKAA1/PRKAA2
Binding Specificity:	pThr172, pThr174
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA1/PRKAA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Synthesized non-phosphopeptide derived from human AMPKalpha,1/AMPKalpha,2 around
	pThr174,pThr172 (L-R-TP-S-C).
Isotype:	lgG
Specificity:	AMPKalpha,1/AMPKalpha,2 Antibody detects endogenous levels of total
	AMPKalpha,1/AMPKalpha,2 protein.
Characteristics:	Molecular Weight: Predicted Band Size 63 kDa, Observed Band Size 63 kDa
Purification:	Rabbit Anti-AMPKalpha,1/AMPKalpha,2 Antibody (Ab-174/172) Polyclonal Antibody was
	purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:

PRKAA1/PRKAA2

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Target Details	
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Background:

Responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-COA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-COA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit.

Application Details

Application Notes:	IHC: 1:50-1:100,
	WB: 1:500-1:1,000,
	IF: 1:100-1:200
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide, and 50 % glycerol
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.
Handling Advice:	Briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap because small volumes of antibody will occasionally become entrapped in the seal of the product vial during shipment and storage. Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store at -20 °C for 1 year.

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Pub	licati	ons

Product cited in:

Arduini, Serviddio, Escobar, Tormos, Bellanti, Viña, Monsalve, Sastre: "Mitochondrial biogenesis fails in secondary biliary cirrhosis in rats leading to mitochondrial DNA depletion and deletions. " in: **American journal of physiology. Gastrointestinal and liver physiology**, Vol. 301, Issue 1, pp. G119-27, (2011) (PubMed).

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