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Datasheet for ABIN716411 anti-SIK1 antibody (AA 51-150)

Image



Overview

Quantity:	100 µL
Target:	SIK1
Binding Specificity:	AA 51-150
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Snf1lk
Isotype:	lgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	SIK1
Alternative Name:	Sik1 (SIK1 Products)
Background:	Synonyms: Serine/threonine-protein kinase SIK1, Salt-inducible kinase 1, SIK-1,

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN716411 | 03/06/2024 | Copyright antibodies-online. All rights reserved. Serine/threonine-protein kinase SNF1-like kinase 1, Serine/threonine-protein kinase SNF1LK, SIK1, SIK, SNF1LK

Background: Serine/threonine-protein kinase involved in various processes such as cell cycle regulation, gluconeogenesis and lipogenesis regulation, muscle growth and differentiation and tumor suppression. Phosphorylates HDAC4, HDAC5, PPME1, SREBF1, CRTC1/TORC1 and CRTC2/TORC2. Acts as a tumor suppressor and plays a key role in p53/TP53-dependent anoikis, a type of apoptosis triggered by cell detachment: required for phosphorylation of p53/TP53 in response to loss of adhesion and is able to suppress metastasis. Part of a sodium-sensing signaling network, probably by mediating phosphorylation of PPME1: following increases in intracellular sodium, SIK1 is activated by CaMK1 and phosphorylates PPME1 subunit of protein phosphatase 2A (PP2A), leading to dephosphorylation of sodium/potassiumtransporting ATPase ATP1A1 and subsequent increase activity of ATP1A1. Acts as a regulator of muscle cells by phosphorylating and inhibiting class II histone deacetylases HDAC4 and HDAC5, leading to promote expression of MEF2 target genes in myocytes. Also required during cardiomyogenesis by regulating the exit of cardiomyoblasts from the cell cycle via downregulation of CDKN1C/p57Kip2. Acts as a regulator of hepatic gluconeogenesis by phosphorylating and repressing the CREB-specific coactivators CRTC1/TORC1 and CRTC2/TORC2, leading to inhibit CREB activity. Also regulates hepatic lipogenesis by phosphorylating and inhibiting SREBF1. In concert with CRTC1/TORC1, regulates the lightinduced entrainment of the circadian clock by attenuating PER1 induction, represses CREBmediated transcription of PER1 by phosphorylating and deactivating CRTC1/TORC1 (By similarity).

Gene ID:	102724428
UniProt:	P57059
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Regulation of
	Carbohydrate Metabolic Process

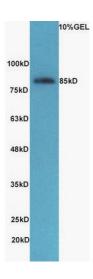
Application Details

Restrictions:	FCM 1:20-100 For Research Use only
	ELISA 1:500-1000
Application Notes:	WB 1:300-5000

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Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Lane 1: mouse adrenal lysates probed with Rabbit Anti-SIK1 Polyclonal Antibody, Unconjugated (ABIN716411) at 1:300 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:5000 for 90 min at 37 °C.