.-online.com antibodies

Datasheet for ABIN6243025 anti-PRAS40 antibody

Image



Overview

Quantity:	200 µL
Target:	PRAS40 (AKT1S1)
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRAS40 antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Immunogen:	This AKT1S1 antibody is generated from a mouse immunized with a recombinant protein from
	the human region of human AKT1S1.
Clone:	1997CT730-74-73
Isotype:	IgG1 kappa
Predicted Reactivity:	H, M
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.
Target Details	
Target:	PRAS40 (AKT1S1)

l arget:	PRAS40 (AKT1S1)
Alternative Name:	AKT1S1 (AKT1S1 Products)
Background:	Subunit of mTORC1, which regulates cell growth and survival in response to nutrient and

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 ABIN6243025 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

	hormonal signals. mTORC1 is activated in response to growth factors or amino acids. Growth
	factor-stimulated mTORC1 activation involves a AKT1-mediated phosphorylation of TSC1-
	TSC2, which leads to the activation of the RHEB GTPase that potently activates the protein
	kinase activity of mTORC1. Amino acid-signaling to mTORC1 requires its relocalization to the
	lysosomes mediated by the Ragulator complex and the Rag GTPases. Activated mTORC1 up-
	regulates protein synthesis by phosphorylating key regulators of mRNA translation and
	ribosome synthesis. mTORC1 phosphorylates EIF4EBP1 and releases it from inhibiting the
	elongation initiation factor 4E (eiF4E). mTORC1 phosphorylates and activates S6K1 at 'Thr-389',
	which then promotes protein synthesis by phosphorylating PDCD4 and targeting it for
	degradation. Within mTORC1, AKT1S1 negatively regulates mTOR activity in a manner that is
	dependent on its phosphorylation state and binding to 14-3-3 proteins. Inhibits RHEB-GTP-
	dependent mTORC1 activation. Substrate for AKT1 phosphorylation, but can also be activated
	by AKT1-independent mechanisms. May also play a role in nerve growth factor-mediated
	neuroprotection.
ılar Weight:	27383

Molecular Weight:	27383
UniProt:	Q96B36
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling
	Pathway, Regulation of Cell Size, Autophagy, BCR Signaling, Warburg Effect

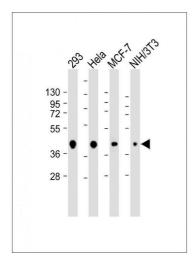
Application Details

Application Notes:	WB: 1:500-1:4000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C,-20 °C
Expiry Date:	6 months

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 2/3 | Product datasheet for ABIN6243025 | 09/10/2023 | Copyright antibodies-online. All rights reserved.



Western Blotting

Image 1. All lanes : Anti-AKT1S1 Antibody at 1:500-1:4000 dilution Lane 1: 293 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: MCF-7 whole cell lysate Lane 4: NIH/3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 27 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

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 3/3 | Product datasheet for ABIN6243025 | 09/10/2023 | Copyright antibodies-online. All rights reserved.