ANTIBODIES ONLINE

Datasheet for ABIN3029887 anti-PRAS40 antibody (AA 227-256)

3 Images



Overview

Overview	
Quantity:	0.4 mL
Target:	PRAS40 (AKT1S1)
Binding Specificity:	AA 227-256
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRAS40 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)
Product Details	
Immunogen:	A portion of amino acids 227-256 from the human protein was used as the immunogen for this
	AKT1S1 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse
Purification:	Antigen affinity purified
Target Details	
Target:	PRAS40 (AKT1S1)
Alternative Name:	AKT1S1 (AKT1S1 Products)
Background:	Subunit of mTORC1, which regulates cell growth and survival in response to nutrient and

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factor stimulated m1ORC1 activation involves a AK11-mediated phosphorylation of TSC1- TSC2, which leads to the activation of the RHEB OTPase that potently activates the protein kinase activity of mTORC1. Arriino acid-signaling to mTORC1 requires its relocalization to the lysosomes mediated by the Ragulator complex and the Rag GTPases. Activated mTORC1 upregulates protein synthesis by phosphorylating key regulators of mRNA translation and nibosome synthesis by phosphorylating key regulators of mRNA translation and nibosome synthesis mTORC1 phosphorylates [F4EBP1 and releases it from inhibiting the elongation initiation factor 4E (eIF4E), mTORC1 phosphorylates mTOR activity in a manner that is dependent on its phosphorylation state and binding to 14A-34 proteins. Inhibits RHEP-OTP-dependent mTORC1 activation. Substrate for AK11 phosphorylation, but can also be activated by AK11-independent mCORC1 activation. Substrate for AK11 phosphorylation, but can also be activated by AK11-independent mCORC1 activation. Substrate for AK11 phosphorylation, but can also be activated by AK11-independent mcehanisms. May also play a role in nerve growth factor-mediated neuroprotection. [UniProt] UniProt: Q96336 Pathways: Fe-epailon Receptor Signaling Pathway, EGER Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Cell Size, Autophagy, BCR Signaling, Warburg Effect Application Notes: Titration of the AKT151 antibody may be required due to differences in protocols and secondary/substrate sensitivity. Western blot. 1.1000/HC (Paraffin). 1.10-1.50 Restrictions: For Research Use only Handling In 1X PBS, pH 7.4, with 0.09 % sodium azide Preseaution of Use: This product		hormonal signals. mTORC1 is activated in response to growth factors or amino acids. Growth
kinase activity of m1OR01. Amino acid-signaling to m1OR01 requires its relocalization to the lysosomes mediated by the Ragulator complex and the Rag CTPases. Activated mTOR01 up- regulates protein synthesis by phosphorylating key regulators of mRNA translation and ribosome synthesis. m1OR01 phosphorylates EIF4EBP1 and releases it from inhibiting the elongation initiation factor 4E (eF4E). mTOR01 phosphorylates and activates S6K1 at Thr-389, which then promotes protein synthesis by phosphorylating PD024 and targeting it for degradation. Within mTOR01 AKT1S1 negatively regulates mTOR activity in a manner that is dependent on its phosphorylation state and binding to 14-3-3 proteins. Inhibits RHEP-GTP- dependent mCR01 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. [UniProt]UniProt:Q96836Pathways:Fo-epsilon Receptor Signaling Pathway, EGER Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Cell Size, Autophagy, BCR Signaling. Werburg EffectApplication DetailsTitration of the AKT1S1 antibody may be required due to differences in protocols and secondary/substrate sensitivity. Western blot: 11:000.IHC (Peraffin): 11:01:50Restrictions:For Research Use onlyHandlingFormat:LiquidBuffer:In 1X PBS, pH 74, with 0.09 % scolum azidePreseution of Use:This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.Storage:-20 °CStorage:-20 °C		factor-stimulated mTORC1 activation involves a AKT1-mediated phosphorylation of TSC1-
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Immunohistochemistry

Image 1. AKT1S1 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue.

Western Blotting

Image 2. AKT1S1 antibody western blot analysis in HeLa lysate

Western Blotting

Image 3. AKT1S1 antibody western blot analysis in HeLa lysate

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