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Quantity:	100 μL
Target:	PRAS40 (AKT1S1)
Binding Specificity:	AA 132-256
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRAS40 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Proline-rich AKT1 substrate 1 protein (132-256AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

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

Aliases: 40 kDa proline rich AKT substrate antibody, 40 kDa proline-rich AKT substrate antibody, AKT1 S1 antibody, AKT1 substrate 1 (proline rich) antibody, AKT1 substrate 1 antibody, AKT1S 1 antibody, AKT1S1 antibody, AKTS1_HUMAN antibody, Lobe antibody, MGC2865 antibody, PRAS 40 antibody, PRAS antibody, PRAS40 antibody, Proline rich akt substrate antibody, Proline rich Akt substrate 40 kDa antibody, Proline-rich AKT1 substrate 1 antibody

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:

Recommended dilution: IHC:1:20-1:200,

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

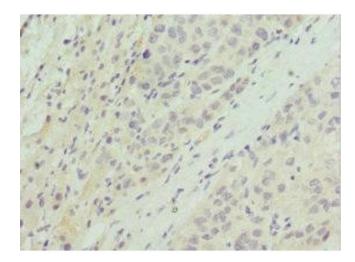
should be handled by trained staff only.

Handling

Storage:	-20 °C,-80 °C
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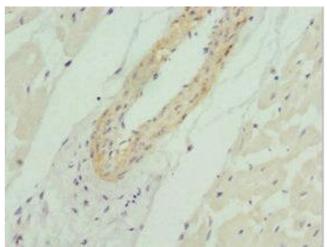
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human liver cancer using ABIN7164754 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human heart tissue using ABIN7164754 at dilution of 1:100