

Rabbit PRAS40 Polyclonal Antibody | anti-PRAS40 antibody

PRAS40 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA226384	Rabbit	Human, Mouse, Rat	Western Blot, Immunoprecipitation, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

PRAS40; Polyclonal Antibody; PRAS40 Antibody; Affinity Purified Proline-rich AKT1 substrate 1 isoform a Antibody; 40 kDa proline rich AKT substrate antibody; AKT1 S1 antibody; AKT1 substrate 1 (proline rich) antibody; AKT1S1 antibody; Lobe antibody; PRAS antibody; PRAS40 antibody; Proline rich Akt substrate 40 kDa antibody; Proline-rich AKT1 substrate 1 antibody; anti-PRAS40 antibody

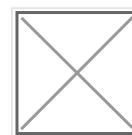
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immobilized antigen affinity chromatography
Concentration	0.5 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	276
Applicable Applications for anti-PRAS40 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA
Immunogen	Synthetic peptide taken within amino acid region 160-210 on human Proline-rich AKT1 substrate 1 isoform a protein.
Conjugation	Unconjugated
Molecular Function	negative regulation of cell size; negative regulation of protein kinase activity; negative regulation of TOR signaling; neurotrophin TRK receptor signaling pathway; regulation of cellular response to heat; regulation of neuron apoptotic process
Subcellular Location	Cytoplasm; Cytosol
Preparation and Storage	Store at -20 degree C for long term storage.

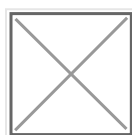
IMAGES



IHC (Immunohistochemisry)



IHC (Immunohiostchemistry)



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-PRAS40 antibody	Overview: 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. Expression: Widely expressed with highest levels of expression in liver and heart. Expressed at higher levels in cancer cell lines (e.g. A-549 and HeLa) than in normal cell lines (e.g. HEK293)
Product Categories/Family for anti-PRAS40 antibody	Primary Antibodies; Cancer Research; Cell Cycle; Kinase/Phosphatases; PRAS40 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	400153980
NCBI GeneID	84335
NCBI Accession #	NP_115751
NCBI GenBank Nucleotide #	NM_032375.5
UniProt Accession #	Q96B36; Q96BI4; Q96IK7; Q96NG2; Q9BWR5; A8MTQ1; B2RE93; J3KPM3
Molecular Weight	29,262 Da
NCBI Official Full Name	proline-rich AKT1 substrate 1 isoform a
NCBI Official Synonym Full Names	AKT1 substrate 1
NCBI Official Symbol	AKT1S1
NCBI Official Synonym Symbols	Lobe; PRAS40
NCBI Protein Information	proline-rich AKT1 substrate 1
UniProt Protein Name	Proline-rich AKT1 substrate 1
UniProt Gene Name	AKT1S1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pras40-antibody-western-blot-immunoprecipitation-immunohistochemistry-elisa/226384>