

Rabbit AKT1S1 Polyclonal Antibody | anti-AKT1S1 antibody

AKT1S1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40696	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

AKT1S1; Polyclonal Antibody; AKT1S1 Antibody; Lobe; PRAS40; Proline-rich AKT1 substrate 1; 40 kDa proline-rich AKT substrate; AKT1 substrate 1 (proline-rich); anti-AKT1S1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AKT1S1 antibody is human, mouse and rat reactive. At least three isoforms of AKT1S1 are known to exist.
Purity/Purification	AKT1S1 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	276
Applicable Applications for anti-AKT1S1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	AKT1S1 antibody was raised against a 19 amino acid peptide near the carboxy terminus of human AKT1S1.
Buffer	AKT1S1 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	AKT1S1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



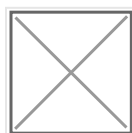
IF (Immunofluorescence)

Immunofluorescence of AKT1S1 in rat brain tissue with AKT1S1 antibody at 20 µg/mL.



IHC (Immunohistochemistry)

Immunohistochemistry of AKT1S1 in rat brain tissue with AKT1S1 antibody at 2.5 µg/mL.



WB (Western Blot)

Western blot analysis of AKT1S1 in human brain tissue lysate with AKT1S1 antibody at (A) 1 and (B) 2 µg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-AKT1S1 antibody	AKT1S1 Antibody: The Akt signaling pathway contributes to the regulation of apoptosis after a variety of cell death signals. AKT1S1, also known as PRAS40, is a proline-rich substrate of the kinase AKT1 and is thought to play a role in neuroprotection mediated by nerve growth factor (NGF) after transient focal cerebral ischemia (1). AKT1S1 is also a substrate and potential regulator of mammalian target of rapamycin (mTOR), a serine/threonine kinase that regulates cell growth and cell cycle, and a negative regulator of autophagy (2). Treatment with the insulin-like growth factor-1 (IGF1) can induce the phosphorylation of AKT1S1 via the PI3K/AKT signaling pathway in PC12 cells (3).
--	---

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	Predicted: 30 kDa Observed: 28 kDa
NCBI Official Full Name	proline-rich AKT1 substrate 1 isoform a
NCBI Official Synonym Full Names	AKT1 substrate 1 (proline-rich)
NCBI Official Symbol	AKT1S1
NCBI Official Synonym Symbols	Lobe; PRAS40
NCBI Protein Information	proline-rich AKT1 substrate 1; AKT1S1; 40 kDa proline-rich AKT substrate
UniProt Protein Name	Proline-rich AKT1 substrate 1
UniProt Gene Name	AKT1S1
UniProt Entry Name	AKTS1_HUMAN

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.