BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Proline-rich AKT1 substrate 1 AKT1S1 Antibody

Catalog Number: A03629

About AKT1S1

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 indusce the phosphorylation of AKT1S1 via the PI3K/AKT signaling pathway in PC12 cells (3).

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Overview

Product Name	Anti-Proline-rich AKT1 substrate 1 AKT1S1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Proline-rich AKT1 substrate 1 AKT1S1 Antibody (Catalog # A03629). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	AKT1S1 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	AKT1S1 antibody can be stored at 4°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q96B36

Technical Details

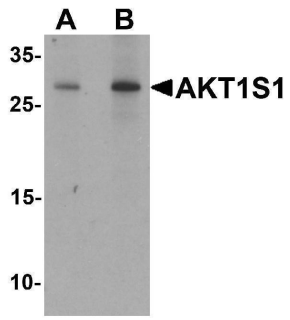
Immunogen	AKT1S1 antibody was raised against a 19 amino acid peptide near the carboxy terminus of human AKT1S1. The immunogen is located within amino acids 190 - 240 of AKT1S1.
Predicted Reactive Species	Bovine, Sheep
Cross Reactivity	AKT1S1 antibody is human, mouse and rat reactive. At least three isoforms of AKT1S1 are known to exist.

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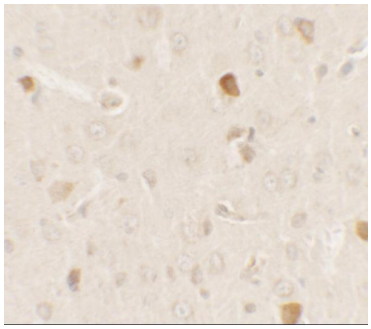
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	AKT1S1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	AKT1S1 antibody can be used for detection of AKT1S1 by Western blot at 1 - 2 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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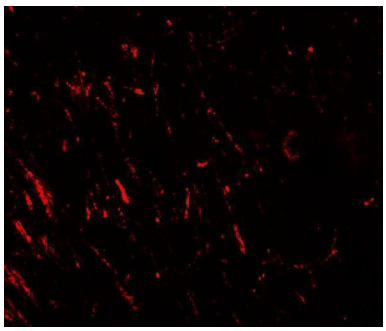
Anti-Proline-rich AKT1 substrate 1 AKT1S1 Antibody (A03629) Images



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



Immunohistochemistry of AKT1S1 in rat brain tissue with AKT1S1 antibody at 2.5 ug/ml.



Immunofluorescence of AKT1S1 in rat brain tissue with AKT1S1 antibody at 20 ug/ml.

Anti-Proline-rich AKT1 substrate 1 AKT1S1 Antibody

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