

Anti-BRSK1 Antibody

Catalog Number: A05997-1

About BRSK1

BRSK1 was initially identified as a mammalian homolog to the fission yeast *S. pombe* Cdr2, a mitosis-regulatory kinase and also shows significant homology to the *C. elegans* neuronal cell polarity regulator SAD1. BRSK1 is ubiquitously expressed, with highest levels of expression in the brain and testes. Similar to its yeast homolog, BRSK1 is thought to be involved in stress-induced cell cycle arrest. Overexpression of this protein leads to the G2/M arrest in HeLa S2 cells and UV-induced G2/M arrest could be partially abrogated by reduced expression of BRSK1 through the use of siRNA, indicating its role in DNA damage checkpoint function. More recently, it has been shown that both BRSK1 and the related protein BRSK2 are required for mammalian neuronal polarization. While BRSK1- and BRSK2-null mice were viable, double-mutant mice died within two hours of birth. Neurons from these mice showed uniformly-sized neurites as opposed to the normal long axon and multiple shorter dendrites. These neurites also displayed both axonal and dendritic markers. At least two isoforms of BRSK1 are known to exist.

Overview

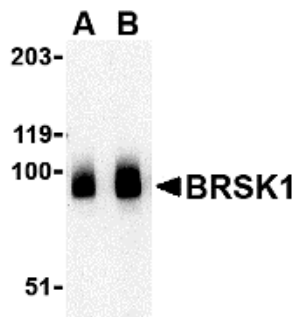
Product Name	Anti-BRSK1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-BRSK1 Antibody (Catalog # A05997-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	BRSK1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	BRSK1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q8TDC3

Technical Details

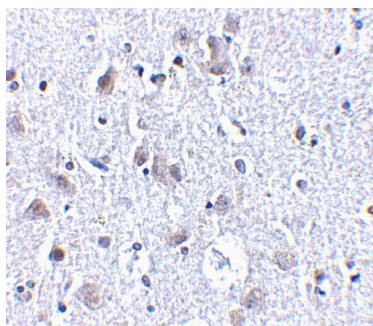
Immunogen	BRSK1 antibody was raised against a 28 amino acid synthetic peptide from near the carboxy terminus of human BRSK1. The immunogen is located within amino acids 720 - 770 of BRSK1.
Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	BRSK1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>BRSK1 antibody can be used for detection of BRSK1 by Western blot at 0.5 - 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.</p> <p>Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

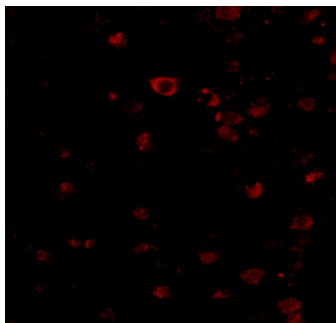
Anti-BRSK1 Antibody (A05997-1) Images



Western blot analysis of BRSK1 in human brain tissue lysate with BRSK1 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunohistochemistry of BRSK1 in human brain tissue with BRSK1 antibody at 2.5 ug/mL.



Immunofluorescence of BRSK1 in Human Brain cells with BRSK1 antibody at 20 ug/mL.

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Anti-BRSK1 Antibody

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