Datasheet for ABIN499499

anti-BRSK1 antibody (C-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	BRSK1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BRSK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	BRSK1 antibody was raised against a 28 amino acid peptide from near the carboxy terminus of human BRSK1.
Isotype:	IgG
Specificity:	This antibody reacts to BRSK1.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	BRSK1
Alternative Name:	BRSK1 (BRSK1 Products)

Target Details

Background:	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 unbiquitously 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.Synonyms: BR serine/threonine-protein kinase 1, KIAA1811, SAD-B, SAD1, SAD1 kinase, Serine/threonine kinase SAD-B
Gene ID:	84446
UniProt:	Q8TDC3

Application Details

Application Notes:	ELISA. Western Blot: BRSK1 antibody can be used for detection of BRSK1 at 0.5 - 1 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.

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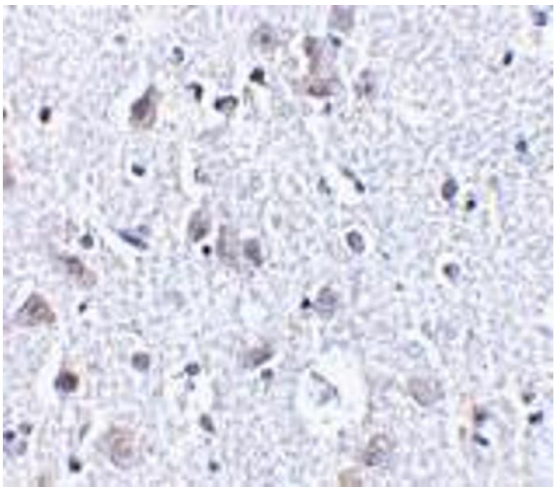
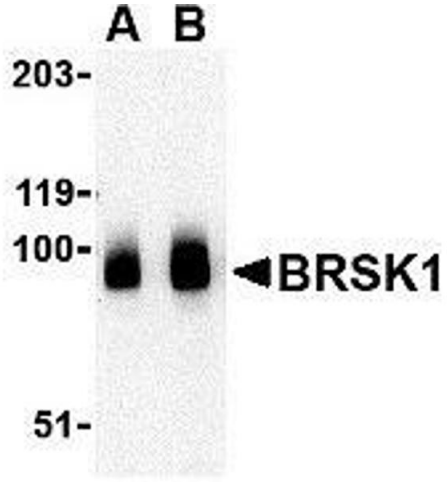


Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of BRSK1 in human brain tissue with BRSK1 antibody at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of BRSK1 in human brain tissue lysate with AP30166PU-N BRSK1 antibody at (A) 0.5 and (B) 1 µg/ml.

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