

Product datasheet for **TA306411**

BRSK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	BRSK1 antibody was raised against a 28 amino acid peptide from near the center of human BRSK1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	BR serine/threonine kinase 1
Database Link:	NP_115806 Entrez Gene 381979 Mouse Entrez Gene 499073 Rat Entrez Gene 84446 Human Q8TDC3



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Background:

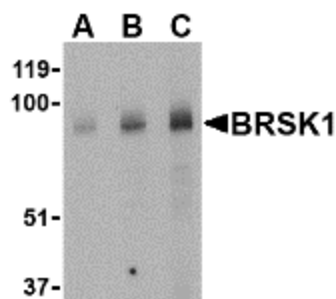
BRSK1 was initially identified as a mammalian homolog to the fission yeast *S. pombe* Cdr2, a mitosis-regulatory kinase and also shows significant homology to the *C. elegans* neuronal cell polarity regulator SAD1. BRSK1 is ubiquitously expressed, with highest levels of expression in the brain and testes. 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.

Synonyms:

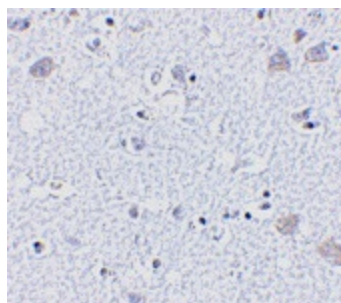
hSAD1

Protein Families:

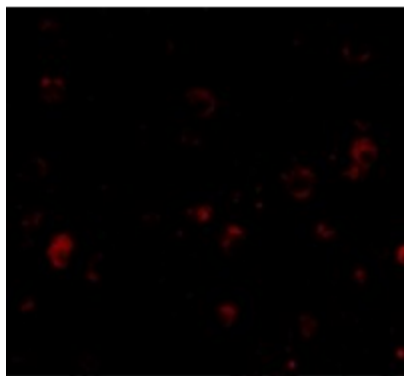
Druggable Genome, Protein Kinase

Product images:

Western blot analysis of BRSK1 in human brain tissue lysate with BRSK1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/ml.



Immunohistochemistry of BRSK1 in human brain tissue with BRSK1 antibody at 5 ug/ml.



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