

BRSK1 Polyclonal Antibody

Catalog Number PA5-20352

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (IHC)	Dilution * 2.5 µg/mL
Type	Antibody	Western Blot (WB)	0.5-1 µg/mL
Immunogen	a 28 amino acid peptide from near the carboxy terminus of human BRSK1.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

A suggested positive control is human brain tissue lysate. PA5-20352 can be used with blocking peptide PEP-0472.

Background/Target Information

BRSK1 (SAD1) is a serine/threonine kinase, and is a UV-induced DNA damage checkpoint kinase. 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.

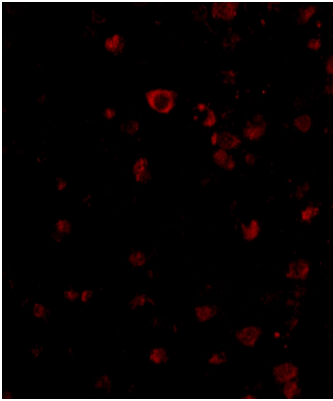
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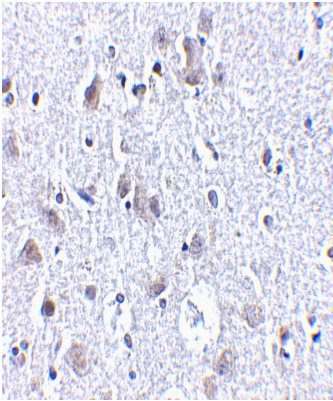
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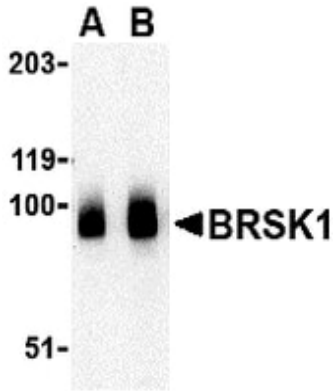
Product Images For BRSK1 Polyclonal Antibody



BRSK1 Antibody (PA5-20352) in ICC/IF
Immunofluorescence of BRSK1 in Human Brain cells with BRSK1 Polyclonal Antibody (Product # PA5-20352) at 20 µg/mL.



BRSK1 Antibody (PA5-20352) in IHC
Immunohistochemistry of BRSK1 in human brain tissue with BRSK1 Polyclonal Antibody (Product # PA5-20352) at 2.5 µg/mL.



BRSK1 Antibody (PA5-20352) in WB
Western Blot analysis of BRSK1 in human brain tissue lysate with BRSK1 Polyclonal Antibody (Product # PA5-20352) at (A) 0.5 and (B) 1 µg/mL.

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