BRSK1 Polyclonal Antibody

Catalog No. E-AB-30676

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Reactivity	Human,Mouse
Immunogen	Synthesized peptide derived from the Internal region of human BRSK1
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Buffer	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol pH 7.4.
Applications	Recommended Dilution
WB	1:500-1:2000
IF	1:200-1:1000
ELISA	1:5000
Data	



Western Blot analysis of 293 cells with BRSK1 Polyclonal Antibody. **Observed Mw:87kDa** Calculated Mw:87kDa

Preparation & Storage

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Background

The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions in eukaryotes, including cell division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the serine/threonine (Ser/Thr) protein kinases. BRSK1 (BR serine/threonine-protein kinase 1), also known as SAD1, is a 794 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one UBA domain and one protein kinase domain. Expressed in a variety of tissues with highest expression in testis and brain, BRSK1 uses magensium as a cofactor to catalyze the ATP-dependent phosphorylation of target proteins, including Wee 1 and Cdc25B. Via its kinase activity toward proteins that are involved in microtubule assembly, BRSK1 plays an essential role in neuronal polarization and may be involved in regulating cell cycle arrest in response to DNA damage, Two isoforms of BRSK1 exist due to alternative splicing events.

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