

Datasheet for ABIN7169020
anti-BRSK1 antibody (AA 426-591) (Biotin)



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Overview

Quantity:	100 µg
Target:	BRSK1
Binding Specificity:	AA 426-591
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BRSK1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Serine/threonine-protein kinase BRSK1 protein (426-591AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	BRSK1
Alternative Name:	BRSK1 (BRSK1 Products)
Background:	Background: Serine/threonine-protein kinase that plays a key role in polarization of neurons and centrosome duplication. Phosphorylates CDC25B, CDC25C, MAPT/TAU, RIMS1, TUBG1, TUBG2

Target Details

and WEE1. Following phosphorylation and activation by STK11/LKB1, acts as a key regulator of polarization of cortical neurons, probably by mediating phosphorylation of microtubule-associated proteins such as MAPT/TAU at '\Thr-529\' and '\Ser-579\''. Also regulates neuron polarization by mediating phosphorylation of WEE1 at '\Ser-642\' in post-mitotic neurons, leading to down-regulate WEE1 activity in polarized neurons. In neurons, localizes to synaptic vesicles and plays a role in neurotransmitter release, possibly by phosphorylating RIMS1. Also acts as a positive regulator of centrosome duplication by mediating phosphorylation of gamma-tubulin (TUBG1 and TUBG2) at '\Ser-131\'', leading to translocation of gamma-tubulin and its associated proteins to the centrosome. Involved in the UV-induced DNA damage checkpoint response, probably by inhibiting CDK1 activity through phosphorylation and activation of WEE1, and inhibition of CDC25B and CDC25C.

Aliases: BR serine/threonine kinase 1 antibody, BR serine/threonine protein kinase 1 antibody, BR serine/threonine-protein kinase 1 antibody, Brain selective kinase 1 antibody, Brain-specific serine/threonine-protein kinase 1 antibody, BRSK 1 antibody, Brsk1 antibody, BRSK1_HUMAN antibody, FLJ43009 antibody, hSAD1 antibody, KIAA1811 antibody, Protein kinase SAD1A antibody, SAD 1 antibody, SAD1 antibody, SAD1 homolog antibody, SAD1 kinase antibody, SAD1A antibody, SADB antibody, SadB kinase short isoform antibody, Serine/threonine kinase SAD B antibody, Serine/threonine-protein kinase SAD-B antibody, Synapses of Amphids Defective homolog antibody

UniProt: [Q8TDC3](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Handling

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.