Datasheet for 600-401-Z93

BRSK2 Antibody

Overview

Description:	Anti-BRSK2 (RABBIT) Antibody - 600-401-Z93
Item No.:	600-401-Z93
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	BRSK2 was initially identified through a computer screen of the human genome and shows significant homology to the C. elegans neuronal cell polarity regulator SAD1. BRSK2 is expressed in the brain and to a lesser extent in the testes. BRSK2 is a member of the AMP-activated protein kinase subfamily and can be activated by the tumor suppressor kinase LKB1. More recently, it has been shown that both BRSK2 and the related protein BRSK1 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. BRSK2 has also been shown to be an autoantigen in paraneoplastic limbic encephalitis. At least four isoforms of BRSK2 are known to exist.
Synonyms:	BRSK2 Antibody, SAD1, SADA, STK29, PEN11B, C11orf7, HUSSY-12, Brain-selective kinase 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BRSK2
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-BRSK2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 23 amino acid synthetic peptide from near the C-terminus of human BRSK2.
Purity/Specificity:	Anti-BRSK2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with BRSK2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8IWQ3 • GeneID - 9024 • NCBI - NP_001243556.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-BRSK2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 82 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	0.5-2 µg/mL

Formulation

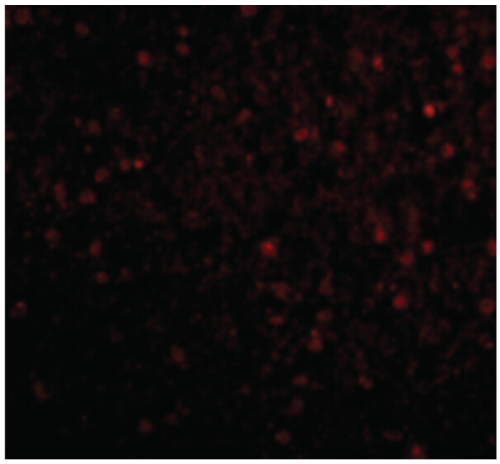
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

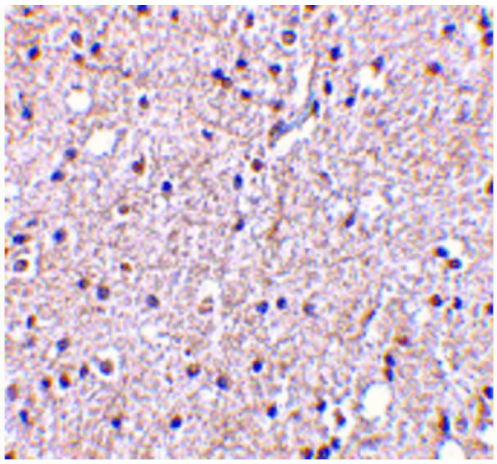
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

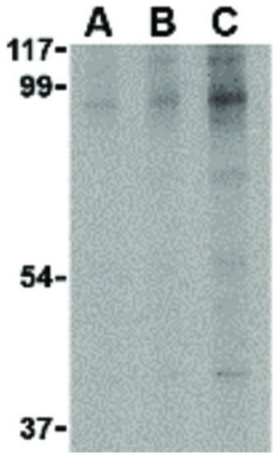
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of BRSK2 antibody. Tissue: Human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: BRSK2 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: BRSK2 as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of BRSK2 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: BRSK2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: BRSK2 is nuclear and occasionally cytoplasmic. Staining: BRSK2 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of BRSK2 antibody. Lane A: Human brain tissue lysate 0.5 µg/mL. Lane B: Human brain tissue lysate 1 µg/mL. Lane C: Human brain tissue lysate 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 81.6 kDa, ~98 kDa for BRSK2. Other band(s): BRSK2 splice variants and isoforms.

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