ELK Biotechnology

BRSK1 rabbit pAb

Cat No.:ES1795

For research use only

Overview

Product Name	BRSK1 rabbit pAb
Host species	Rabbit
Applications	WB;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human BRSK1. AA range:361-410
Specificity	BRSK1 Polyclonal Antibody detects endogenous levels of BRSK1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Serine/threonine-protein kinase BRSK1
Gene Name	BRSK1
Cellular localization	Cytoplasm . Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cell junction, synapse . Cell junction, synapse, presynaptic active zone . Cytoplasmic vesicle, secretory vesicle, synaptic vesicle . Nuclear in the absence of DNA
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	87kD
Human Gene ID	84446
Human Swiss-Prot Number	Q8TDC3
Alternative Names	BRSK1; KIAA1811; SAD1; SADB; Serine/threonine-protein kinase BRSK1;

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

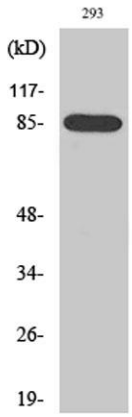
23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

ELK Biotechnology

Brain-selective kinase 1; Brain-specific serine/threonine-protein kinase 1; BR serine/threonine-protein kinase 1; Serine/threonine-protein kinase SAD-B; Synapses of Amphids

Background

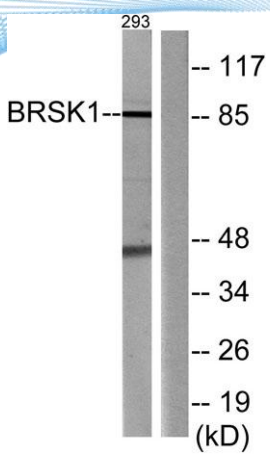
catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation on Thr-205 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39.,function:Required for the polarization of forebrain neurons which endows axons and dendrites with distinct properties, possibly by locally regulating phosphorylation of microtubule-associated proteins (By similarity). May be involved in the regulation of G2/M arrest in response to UV- or methyl methane sulfonate (MMS)-induced, but not IR-induced, DNA damage. Phosphorylates WEE1 and CDC25B in vitro and CDC25C in vitro and in vivo.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. AMPK subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 UBA domain.,subcellular location:Nuclear in the absence of DNA damage. Translocated to the nucleus in response to UV- or MMS-induced DNA damage.,tissue specificity:Widely expressed, with highest levels in brain and testis. Protein levels remain constant throughout the cell cycle.,



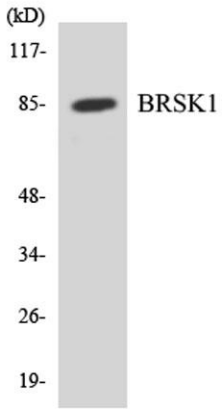
Western Blot analysis of various cells using BRSK1 Polyclonal Antibody

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C



Western blot analysis of lysates from 293 cells, using BRSK1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using BRSK1 antibody.