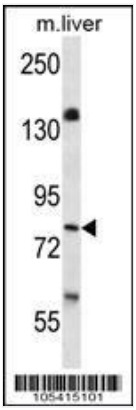
BRSK1 Antibody – Rabbit Polyclonal

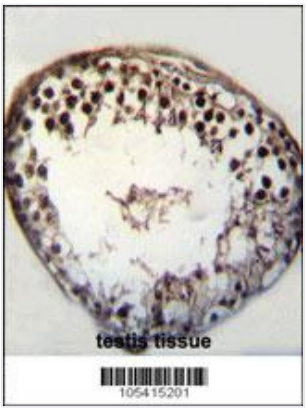
PRODUCT OVERVIEW

Product Name	BRSK1, Polyclonal Antibody
Full Product Name	BRSK1, CT (BRSK1, KIAA1811, SAD1, SADB, Serine/threonine-protein kinase BRSK1, Brain-selective kinase 1, Brain-specific serine/threonine-protein kinase 1, Serine/threonine-protein kinase SAD-B, Synapses of Amphids Defective homolog 1) (Biotin)
Product Gene Name	anti-BRSK1 antibody
Product Synonym Names	BRSK1; KIAA1811; SAD1; SADB; Serine/threonine-protein kinase BRSK1; Brain-selective kinase 1; Brain-specific serine/threonine-protein kinase 1; Serine/threonine-protein kinase SAD-B; Synapses of Amphids Defective homolog 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	38,782 Da
OMIM	609235
3D Structure	ModBase 3D Structure for Q8TDC3
Immunogen	BRSK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human BRSK1.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-BRSK1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-BRSK1 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-BRSK1 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-BRSK1 antibody	BRSK1 may be involved as a checkpoint kinase in the regulation of G2/M arrest in response to UV-or methyl methane sulfonate (MMS)-induced, but not IR-induced, DNA damage. This protein phosphorylates WEE1 and CDC25B in vitro and CDC25C in vitro and in vivo. BRSK1 is partitioned between cytoplasmic and nuclear locations in the absence of DNA damage, but translocates to the nucleus in response to Uv-or MMS-induced DNA damage. BRSK1 shares significant homology with the fission yeast Cdr2, a mitosis-regulatory kinase, and Caenorhabditis elegans SAD1, a neuronal cell polarity regulator. The BRSK1 transcript is expressed ubiquitously with the highest levels of expression in brain and testis.

Product References and Citations for anti-BRSK1 antibody	Lu, R., et al., J. Biol. Chem. 279(30):31164-31170 (2004). Lizcano, J.M., et al., EMBO J. 23(4):833-843 (2004).
Other Notes	Small volumes of anti-BRSK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BRSK1 purchase	MBS6278980 is an antibody targeting BRSK1. Also known as BRSK1, CT (BRSK1, KIAA1811, SAD1, SADB, Serine/threonine-protein kinase BRSK1, Brain-selective kinase 1, Brain-specific serine/threonine-protein kinase 1, Serine/threonine-protein kinase SAD-B, Synapses of Amphids Defective homolog 1) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-BRSK1 antibody
KIAA1811 Antibody (S685) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the KIAA1811 antibody detected the KIAA1811 protein (arrow).



Immunohistochemistry (IHC) of anti-BRSK1 antibody
BRSK1 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of BRSK1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRSK1. It may not necessarily be applicable to this product.

NCBI GI #	24308326
NCBI GeneID	84446
NCBI Accession #	NP_115806
UniProt Primary Accession #	Q8TDC3
UniProt Secondary Accession #	Q5J5B5; Q8NDD0; Q8NDR4; Q8TDC2; Q96AV4; Q96JL4; F1DG44
UniProt Related Accession #	Q8TDC3
GenBank Nucleotide #	NM_032430.1
NCBI Official Full Name	serine/threonine-protein kinase BRSK1
NCBI Official Synonym Full Names	BR serine/threonine kinase 1
NCBI Official Symbol	BRSK1
NCBI Official Synonym Symbols	hSAD1
UniProt Protein Name	Serine/threonine-protein kinase BRSK1
UniProt Synonym Protein Names	Brain-selective kinase 1 (EC:2.7.11.26); Brain-specific serine/threonine-protein kinase 1; BR serine/threonine-protein kinase 1; Serine/threonine-protein kinase SAD-B; Synapses of Amphids Defective homolog 1; SAD1 homolog; hSAD1
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	BRSK1

UniProt Synonym Gene Names	KIAA1811; SAD1; SADB; BR serine/threonine-protein kinase 1; SAD1 homolog; hSAD1
UniProt Entry Name	BRSK1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase BRSK1
UniProt Comments for BRSK1	BRSK1: a serine/threonine protein kinase of the CAMK group. Closely related to AMPK. Activated by the kinase LKB1. Acts as checkpoint kinase upon DNA damage induced by UV or methyl methane sulfonate. Phosphorylates WEE1 and CDC25B in vitro and CDC25C in vitro and in vivo. Translocates from the cytoplasm to the nucleus in response to UV- or MMS-induced DNA damage. BRSK1 and BRSK2 are required for neuronal polarization. Widely expressed with highest levels in the brain and testis. Two alternatively spliced isoforms have been described. Protein type: Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.26; EC 2.7.11.1; Protein kinase, CAMK; Kinase, protein; CAMK group; CAMKL family; BRSK subfamily Chromosomal Location of Human Ortholog: 19q13.4 Cellular Component: nucleoplasm; centrosome; synaptic vesicle; cytoplasm; cell junction; nucleus Molecular Function: protein serine/threonine kinase activity; gamma-tubulin binding; tau-protein kinase activity; magnesium ion binding; protein kinase binding; ATP binding Biological Process: neuron differentiation; axonogenesis; establishment of cell polarity; neurotransmitter secretion; response to ionizing radiation; G2/M transition DNA damage checkpoint; centrosome duplication; response to DNA damage stimulus; protein amino acid phosphorylation; response to UV
Research Articles on BRSK1	**1.** BRSK1 is a novel tumor suppressor in breast cancer which inversely correlated with Jab1 expression.
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