

Rabbit BRSK2 Polyclonal Antibody | anti-BRSK2 antibody

Anti-BRSK2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126424	Rabbit	Human, Mouse, Rat	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

BRSK2; Polyclonal Antibody; Anti-BRSK2 Antibody Picoband; anti-BRSK2 antibody

PRODUCT SPECIFICATIONS

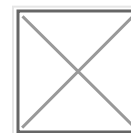
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-BRSK2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human BRSK2 recombinant protein (Position: M250-P736).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of CACO-2 cells using anti-BRSK2 antibody (AAA126424). Overlay histogram showing CACO-2 cells stained with AAA126424 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BRSK2 Antibody (AAA126424, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of BRSK2 using anti-BRSK2 antibody (AAA126424). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human CACO-2 whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: rat testis tissue lysates, Lane 4: mouse brain tissue lysates, Lane 5: mouse testis tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-BRSK2 antigen affinity purified polyclonal antibody (#AAA126424) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for BRSK2 at approximately 90 kDa. The expected band size for BRSK2 is at 90 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-BRSK2 antibody	BR serine/threonine-protein kinase 2 is an enzyme that in humans is encoded by the BRSK2 gene. 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.
Product Categories/Family for anti-BRSK2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	116241272
NCBI GeneID	9024
UniProt Accession #	Q8IWQ3; O60843; O95099; Q5J5B4; Q6ZMQ4; Q8TB60; B3KVE9; E9PLM7
Molecular Weight	68,740 Da
NCBI Official Full Name	Serine/threonine-protein kinase BRSK2
NCBI Official Synonym Full Names	BR serine/threonine kinase 2
NCBI Official Symbol	BRSK2
NCBI Official Synonym Symbols	SAD1; SADA; STK29; PEN11B; C11orf7
NCBI Protein Information	serine/threonine-protein kinase BRSK2; protein kinase SAD1B; brain-selective kinase 2; serine/threonine-protein kinase 29; BR serine/threonine-protein kinase 2; serine/threonine-protein kinase SAD-A; brain-specific serine/threonine-protein kinase 2
UniProt Protein Name	Serine/threonine-protein kinase BRSK2
UniProt Gene Name	BRSK2
UniProt Synonym Gene Names	C11orf7; PEN11B; SADA; STK29; BR serine/threonine-protein kinase 2
UniProt Entry Name	BRSK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/brsk2-antibody-western-blot-flow-cytometry-elisa/126424>