

Datasheet for ABIN7169019
anti-BRSK1 antibody (AA 426-591)

3 Images

[Go to Product page](#)

Overview

| | |
|----------------------|--|
| Quantity: | 100 µg |
| Target: | BRSK1 |
| Binding Specificity: | AA 426-591 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This BRSK1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC) |

Product Details

| | |
|-------------------|---|
| Immunogen: | Recombinant Human Serine/threonine-protein kinase BRSK1 protein (426-591AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse |
| 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: Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

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

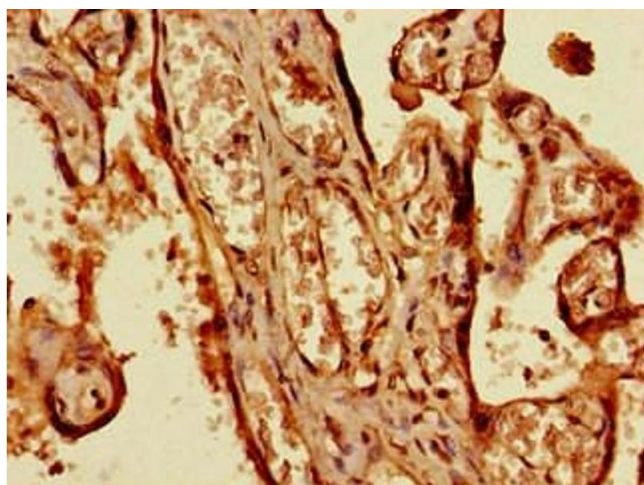
Preservative: ProClin

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

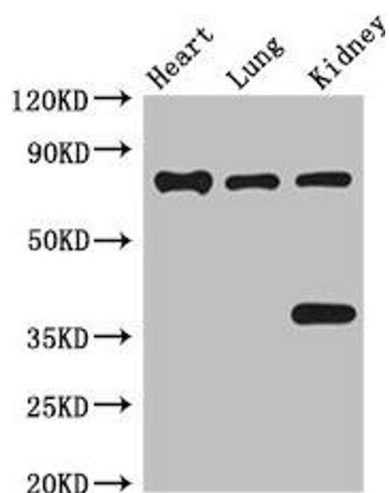
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



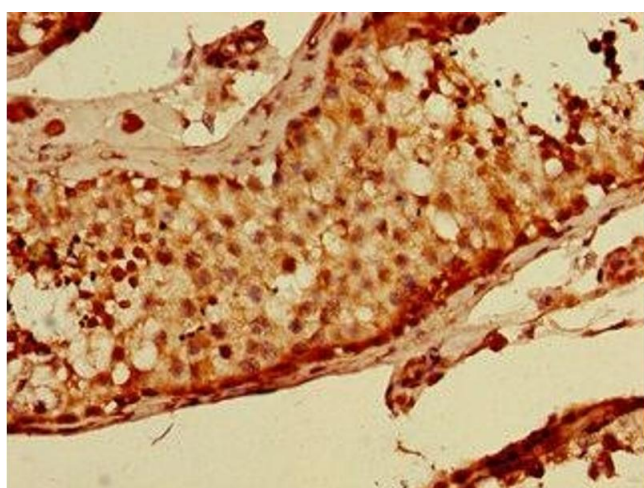
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7169019 at dilution of 1:100



Western Blotting

Image 2. Western Blot Positive WB detected in: Mouse heart tissue, Mouse lung tissue, Mouse kidney tissue All lanes: BRSK1 antibody at 3.5 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 86, 87, 39 kDa Observed band size: 86, 39 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human testis tissue using ABIN7169019 at dilution of 1:100