

## Product datasheet

### Anti-BRSK1 antibody [EPR18190] ab206298

Recombinant RabMAb

6 Images

#### Overview

<b>Product name</b>	Anti-BRSK1 antibody [EPR18190]
<b>Description</b>	Rabbit monoclonal [EPR18190] to BRSK1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: SH-SY5Y, Jurkat, PC-12 and NIH/3T3 whole cell lysates; mouse testis lysate; rat brain lysate. ICC/IF: Neuro-2a and NIH/3T3 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR18190
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab206298 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100.
WB		1/1000. Detects a band of approximately 85 kDa (predicted molecular weight: 85 kDa).

## Target

### 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.

### Tissue specificity

Widely expressed, with highest levels in brain and testis. Protein levels remain constant throughout the cell cycle.

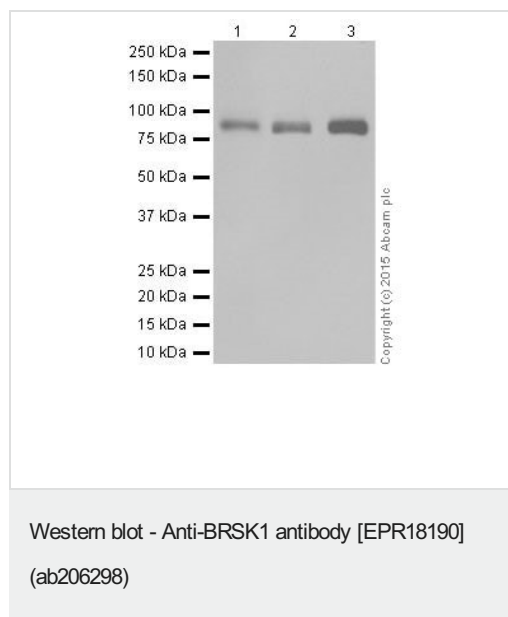
### Sequence similarities

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. AMPK subfamily. Contains 1 protein kinase domain.  
Contains 1 UBA domain.

### Cellular localization

Cytoplasm. Nucleus. Nuclear in the absence of DNA damage. Translocated to the nucleus in response to UV- or MMS-induced DNA damage.

## Images



**All lanes :** Anti-BRSK1 antibody [EPR18190] (ab206298) at 1/1000 dilution

**Lane 1 :** SH-SY5Y (Human neuroblastoma from bone marrow cells) whole cell lysate

**Lane 2 :** Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate

**Lane 3 :** Mouse testis tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

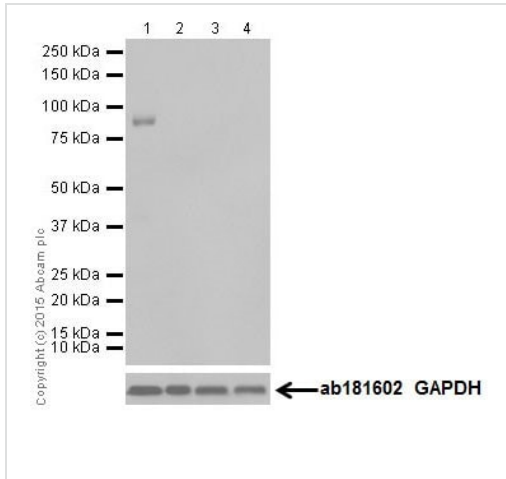
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/1000 dilution

**Predicted band size:** 85 kDa

**Observed band size:** 85 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST



Western blot - Anti-BRSK1 antibody [EPR18190] (ab206298)

**All lanes :** Anti-BRSK1 antibody [EPR18190] (ab206298) at 1/1000 dilution

**Lane 1 :** Rat brain tissue lysate

**Lane 2 :** Rat heart tissue lysate

**Lane 3 :** Rat kidney tissue lysate

**Lane 4 :** Rat spleen tissue lysate

Lysates/proteins at 10 µg per lane.

#### **Secondary**

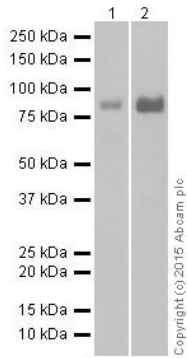
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

**Predicted band size:** 85 kDa

**Observed band size:** 85 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST



Western blot - Anti-BRSK1 antibody [EPR18190] (ab206298)

**All lanes** : Anti-BRSK1 antibody [EPR18190] (ab206298) at 1/1000 dilution

**Lane 1** : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

**Lane 2** : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

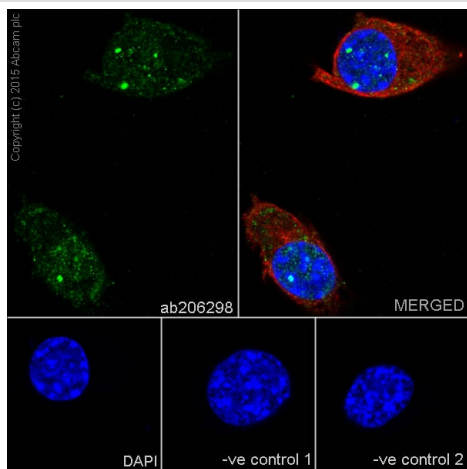
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

**Predicted band size:** 85 kDa

**Observed band size:** 85 kDa

Exposure time: Lane 1 - 30 seconds; Lane 2 - 3 minutes.

Blocking/Dilution buffer: 5% NFDm/TBST.



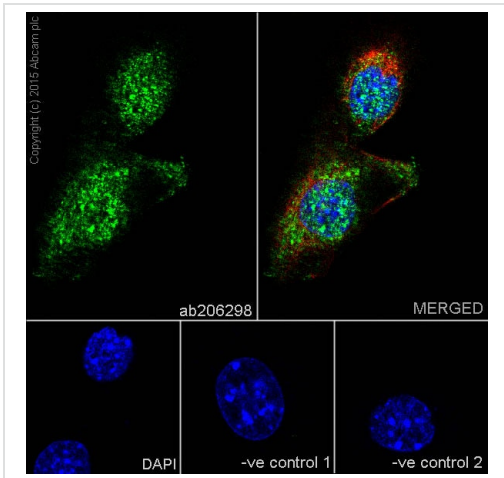
Immunocytochemistry/ Immunofluorescence - Anti-BRSK1 antibody [EPR18190] (ab206298)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Neuro-2a (Mouse neuroblastoma cells) cells labeling BRSK1 with ab206298 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing both nuclear and cytoplasmic staining on Neuro-2a cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows;

-ve control 1: ab206298 at 1/100 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution



Immunocytochemistry/ Immunofluorescence - Anti-BRSK1 antibody [EPR18190] (ab206298)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryo fibroblast cells) cells labeling BRSK1 with ab206298 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing both nuclear and cytoplasmic staining on NIH/3T3 cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows;

-ve control 1: ab206298 at 1/100 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-BRSK1 antibody [EPR18190] (ab206298)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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