

## Product datasheet

# Anti-SRPK2 antibody [EPR16366] - N-terminal ab192238

Recombinant RabMAb

1 References 7 Images

### Overview

<b>Product name</b>	Anti-SRPK2 antibody [EPR16366] - N-terminal
<b>Description</b>	Rabbit monoclonal [EPR16366] to SRPK2 - N-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human SRPK2 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: <a href="#">P78362</a>
<b>Positive control</b>	Human fetal brain, fetal kidney, HeLa and HepG2 lysates; Human endometrium adenocarcinoma and kidney tissues; Neuro-2a cells.
<b>General notes</b>	

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise<sup>™</sup> guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<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: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR16366
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab192238** 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
WB		1/1000 - 1/2000. Detects a band of approximately 115 kDa (predicted molecular weight: 115 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250.

## Target

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<b>Function</b>	Serine/arginine-rich protein-specific kinase which specifically phosphorylates its substrates at serine residues located in regions rich in arginine/serine dipeptides, known as RS domains and is involved in the phosphorylation of SR splicing factors and the regulation of splicing. Promotes neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression. This is done by the phosphorylation of SRSF2, leading to the suppression of p53/TP53 phosphorylation thereby relieving the repressive effect of p53/TP53 on cyclin-D1 (CCND1) expression. Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation. Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28. Can mediate hepatitis B virus (HBV) core protein
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phosphorylation. Plays a negative role in the regulation of HBV replication through a mechanism not involving the phosphorylation of the core protein but by reducing the packaging efficiency of the pregenomic RNA (pgRNA) without affecting the formation of the viral core particles.

#### Tissue specificity

Highly expressed in brain, moderately expressed in heart and skeletal muscle and at low levels in lung, liver, and kidney.

#### Sequence similarities

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family.  
Contains 1 protein kinase domain.

#### Post-translational modifications

Phosphorylation at Thr-492 by PKB/AKT1 enhances its stimulatory activity in triggering cyclin-D1 (CCND1) expression and promoting apoptosis in neurons, which can be blocked by YWHAB. It also enhances its protein kinase activity toward ACIN1 and SRSF2, promotes its nuclear translocation and prevents its proteolytic cleavage.

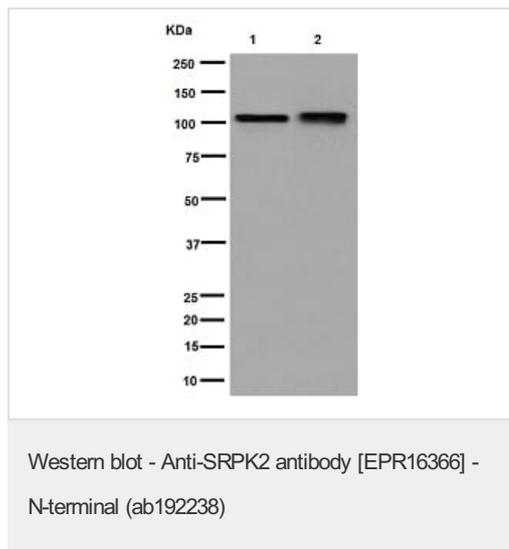
Proteolytically cleaved at Asp-139 and Asp-403 by caspase-3 during apoptotic cell death.

Cleavage at Asp-139 which is the major site of cleavage, produces a small N-terminal fragment that translocates into nucleus and promotes VP16-induced apoptosis.

#### Cellular localization

Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm. KAT5/TIP60 inhibits its nuclear translocation. Phosphorylation at Thr-492 by PKB/AKT1 promotes nuclear translocation.

## Images



**All lanes :** Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238) at 1/1000 dilution

**Lane 1 :** HepG2 cell lysate

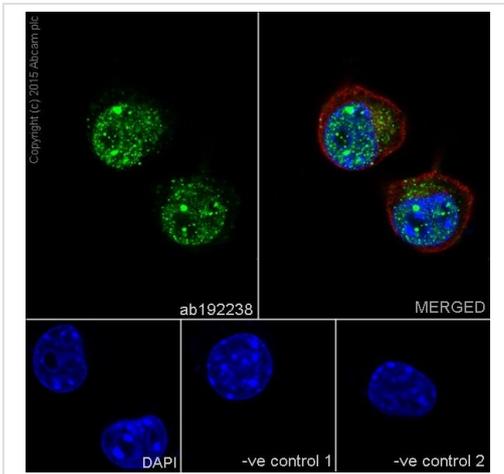
**Lane 2 :** HeLa cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

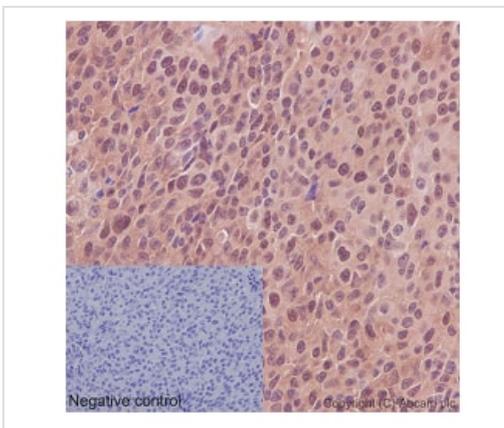
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 115 kDa



Immunocytochemistry/ Immunofluorescence - Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238)

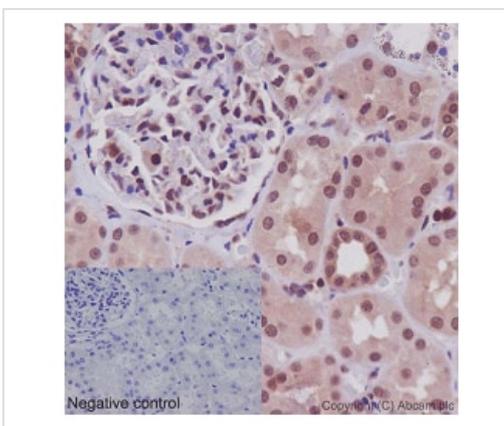
Immunofluorescent analysis of Neuro-2a cells (4% Paraformaldehyde-fixed, 0.1% tritonX-100 permeabilized) labeling SRPK2 with ab192238 at 1/250 dilution (5.4 µg/mL) followed by Goat anti rabbit IgG (AlexaFluor® 488) (ab150077) secondary at 1/200 dilution and counter-stained with DAPI (blue).  
 Negative controls: anti-SRPK2 at 1/250 dilution, Secondary ab (Goat anti mouse IgG (Alexa Fluor®594)) at 1/500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238)

Immunohistochemical analysis of paraffin-embedded Human endometrium adenocarcinoma tissue labeling SRPK2 with ab192238 at 1/100 dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

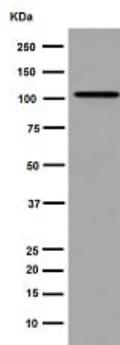
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling SRPK2 with ab192238 at 1/100 dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



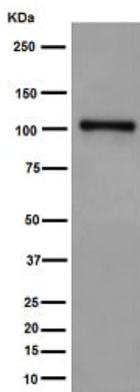
Western blot - Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238)

Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238) at 1/1000 dilution + Human fetal kidney lysate at 10 µg

**Secondary**

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

**Predicted band size:** 115 kDa



Western blot - Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238)

Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238) at 1/2000 dilution + Human fetal brain lysate at 20 µg

**Secondary**

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 115 kDa

Why choose a recombinant antibody?

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

Anti-SRPK2 antibody [EPR16366] - N-terminal (ab192238)

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

## **Our Abpromise to you: Quality guaranteed and expert technical support**

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